(2)

Final
Copy No. 1

Universal Report No. ————	Originator's Report No. MRC-R-699
	Revision ————

REPORT OF TEST ON LIGHTING SYSTEMS AND ARTIFICIAL GROUND COVER

TEST PERFORMED BY:

Mission Research Corporation

TEST AUTHORIZED BY:

DAAK70-81-C-0024
Contract No.

"The views, opinions, and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy, or decision, unless so designated by other documentation."

Prepared for:

Commander
U.S. Army Mobility Equipment Research and Development Command
ATTN: DRDME-XI
Fort Belvoir, VA 22060

Prepared by:

MISSION RESEARCH CORPORATION
735 State Street, P.O. Drawer 719
Santa Barbara, California 93102

Universal Report No. _____	Originator's Report No. MRC-R-699 Revision _____

REPORT OF TEST ON LIGHTING SYSTEMS AND ARTIFICIAL GROUND COVER

TEST PERFORMED BY:

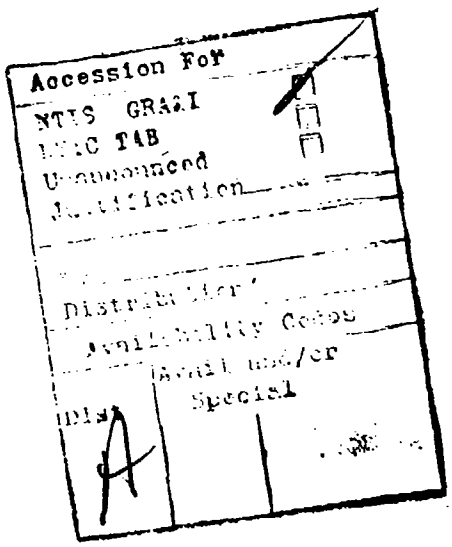
Mission Research Corporation

DAAK70-81-C-0024
Contract No.

	Date	Signature	
Test Initiated	11/30/81		
Test Completed	12/16/81		
Report Written By	4/23/82		
Technician			
Test Engineer			
Supervisor	4/23/82		
Supervisor			
Government Repr. (if applicable)			
Final Release			

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS



1. PURPOSE OF THE TEST

As part of its work under Contract Number DAAK70-81-C-0024 with the U.S. Army Mobility Equipment Research and Development Command (MERADCOM), Mission Research Corporation (MRC) developed several concepts for lighting and ground cover configurations with potential for improving performance of guards at the perimeter of high security installations. The purpose of the tests was to demonstrate improvement, or lack of improvement, while using selected configurations. Candidate configurations and those selected for test are described in detail in Reference 1.

The tests were conducted at MERADCOM's Test Range 1 during December 1981. At the conclusion of testing, the lights, ground cover, and test control equipment were left at Test Range 1.

2. DESCRIPTION OF THE TESTS

Tests consisted of running and crawling simulated intrusions outside the outer fence of the double fence test site. The tests were conducted at night. Intrusions were made at distances of 700, 800, and 900 feet from the observation tower. A closed circuit television camera was located 180 feet from the nearest intrusion point so that intrusions were 180, 280, and 380 feet from the camera. The TV display was placed in a location separate from the tower observer. Procedures and test layout are shown in Reference 1, Section 9, and in Reference 2.

The lighting/ground cover configurations tested were:

Standard Lighting/Natural Grass
Standard Lighting/Crushed Rock
Tungsten Iodide Spotlights/Natural Grass
Tungsten Iodide Spotlights/Discrete Retroreflectors.

Standard lighting with natural grass ground cover was used as a basis for comparison of other lighting/ground cover configurations.

3. CORRECTIONS AND RECOMMENDATIONS

Visual barriers were erected at the ranges where intrusions were to be made so that intruders could move from one range to another without being visible to the observers. It became difficult to maintain the barriers during high winds. The observers were instructed to turn away from the test zone and TV screen after reporting an intruder. They turned back to the zone when given an alarm signal. During tests with standard lighting/natural grass and standard lighting/crushed rock observers turned away from the test zone whether the barriers were in place or not.

Weather reports from two nearby airports were recorded in late afternoon before testing but were not particularly useful. A photometer was available to measure luminance of the test zone. Use of the photometer and a single standard light source at the far end of the test zone would have made relative measurement of light transmission possible.

The observers and intruders were hired from a commercial guard service. All had military service within the past 5 years. The observers were asked if they had 20/20 uncorrected vision. Both replied that they had. (One had been in a Marine air delivery unit, the other a Marine reconnaissance scout.) Upon later testing it was determined that one observer had 20/20 vision, the other 20/30 and 20/25. Although it was originally planned that both observers would have 20/20 vision, the data collected contains results for both. However, it is recommended that observers be tested before testing starts and that verbal reports not be accepted.

4. DESCRIPTION OF TEST APPARATUS

The MRC test team consisted of four people. One of the team was a psychologist who assisted with test planning, indoctrination of intruders and observers, and advised on human factors aspects of testing. The other three rotated positions as intruder monitor, tower observer monitor, and TV observer monitor. The procedure is described in detail in Reference 1, Section 9. Briefly, the intruder monitor, with a pre-prepared intrusion

schedule, instructed the intruders and started each intrusion. When the intrusion was started, an audible alarm signal was given to each observer and a timer was started at each monitor station. When the observer detected the intruder he pressed a button, stopping the timer. The observer then told the monitor what type of intrusion he had seen (run or crawl), and at which range (1, 2, or 3). When the monitor had recorded the time and verification he signalled "Guard Ready" to the intruder monitor panel. When both guard monitors had signalled ready, the intruder monitor could start another intrusion. Information flow among the control panels is shown in Figure 1. The intruder monitor panel and a guard monitor panel with the guard's alarm and detect button box are shown in Figure 2. An interconnection wiring diagram is shown in Figure 3. With the exception of an occasional fuse replacement when the equipment was first turned on, the monitoring and control panels operated without trouble throughout the test period.

The tungsten-iodide lamps were operated from a battery housed inside the tower. The battery was floated across a charger to assure that the battery was fully charged while the lights were being used, as shown in Figure 4.

5. RESULTS OF THE TEST: SUMMATION AND ANALYSIS

Test results are presented in Reference 1, Section 10 where test results are shown graphically. In each case the top of the bar is the mean probability of detection, i.e., number of detections/number of trials. The bottom of the bar is the lower 90 percent confidence limit. That is, if the tests were repeated a large number of times, the measured probability of detection would be greater than that given by the bottom of the bar in 90 percent of the tests. Results using the tungsten iodide spotlights with natural grass surface were poorer than with the standard HPS lighting and grass at all ranges. Likewise, results using artificial ground cover were, in all cases, better than those using the standard

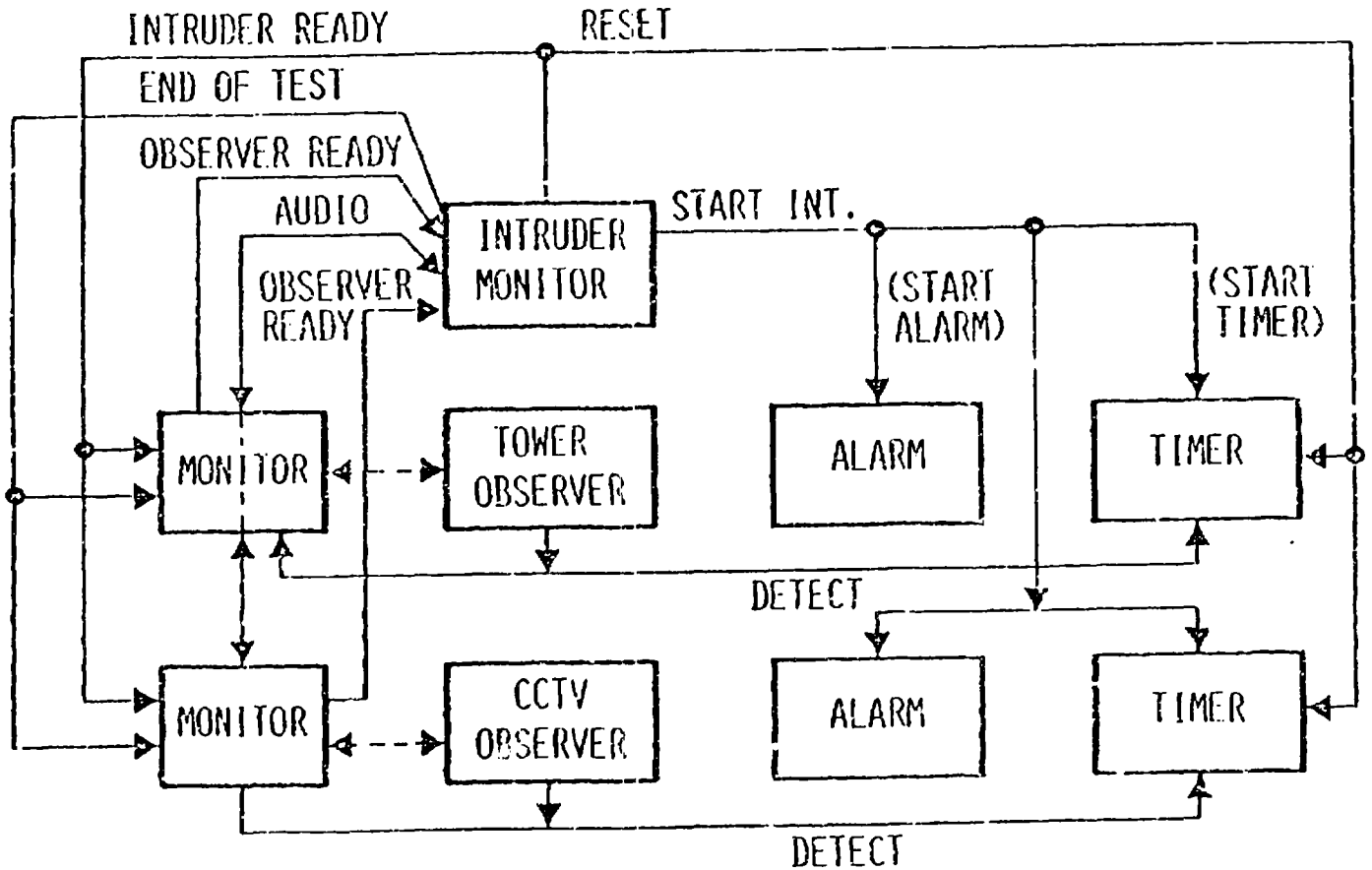
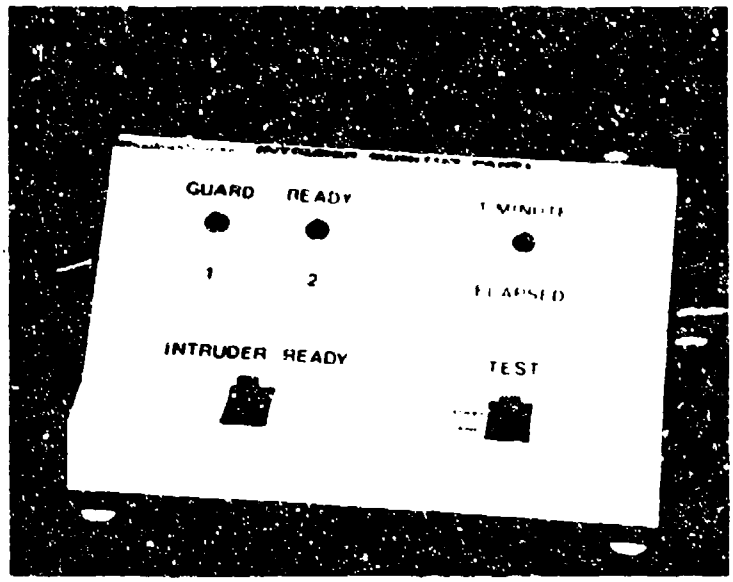
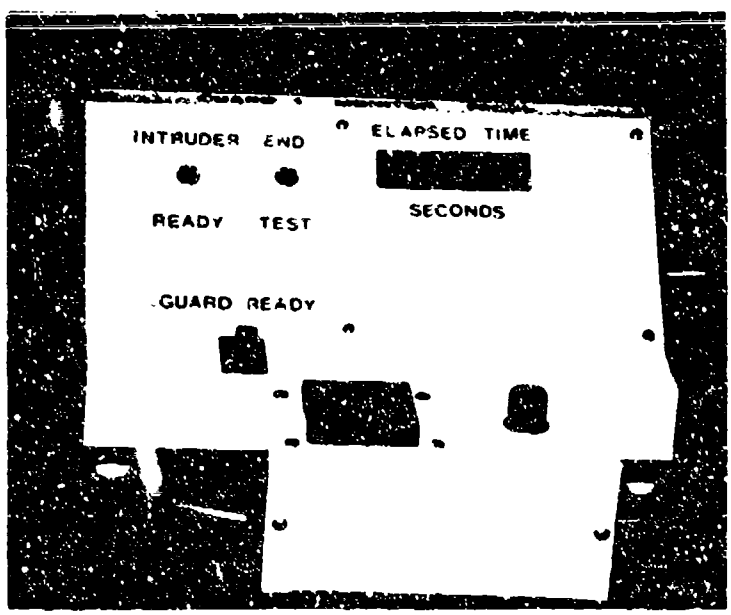


Figure 1. Information flow for test coordination.



(a)



(b)

Figure 2. (a) Intruder Monitor Panel, and (b) Observer Monitor Panel.

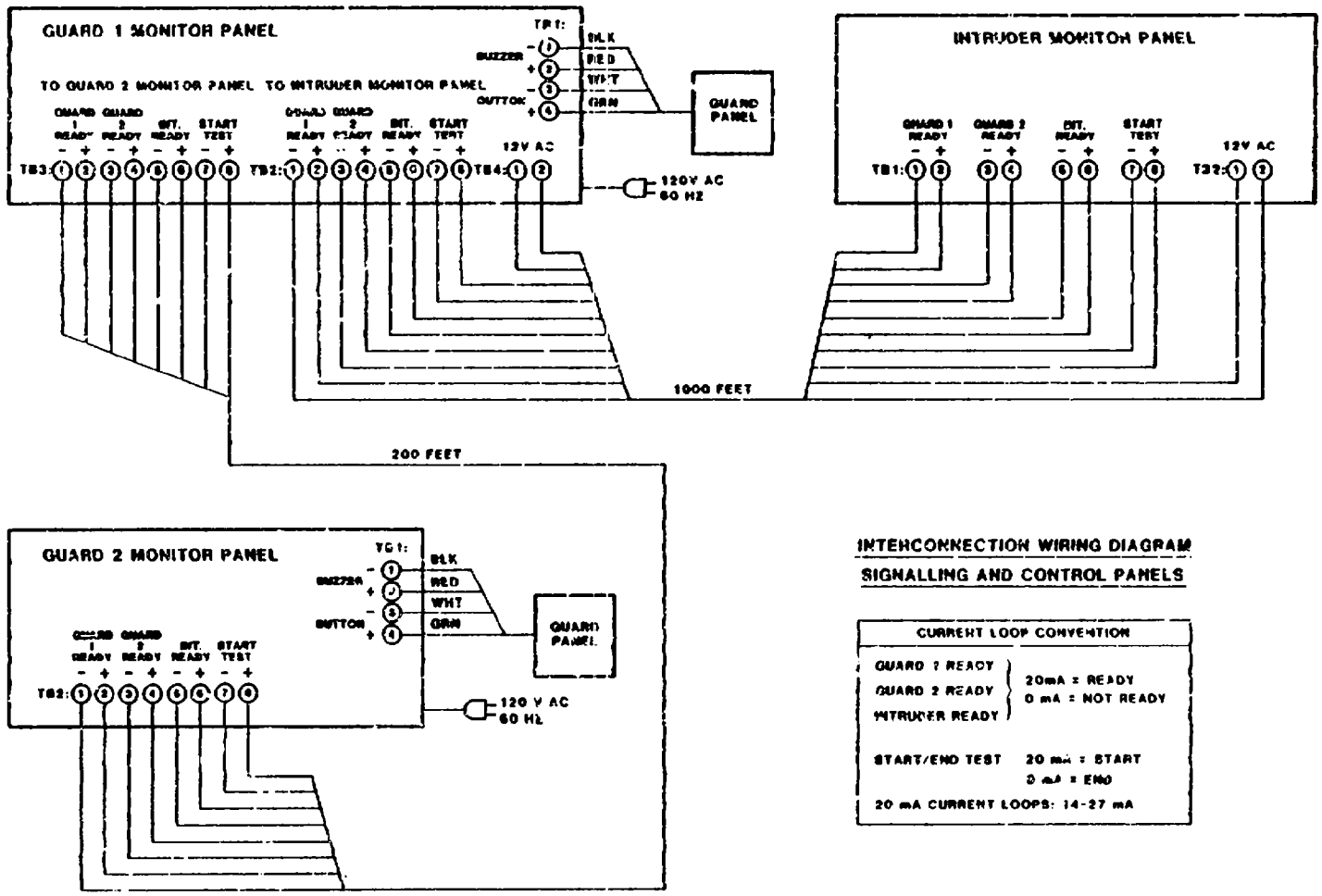


Figure 3. Control panel wiring diagram.

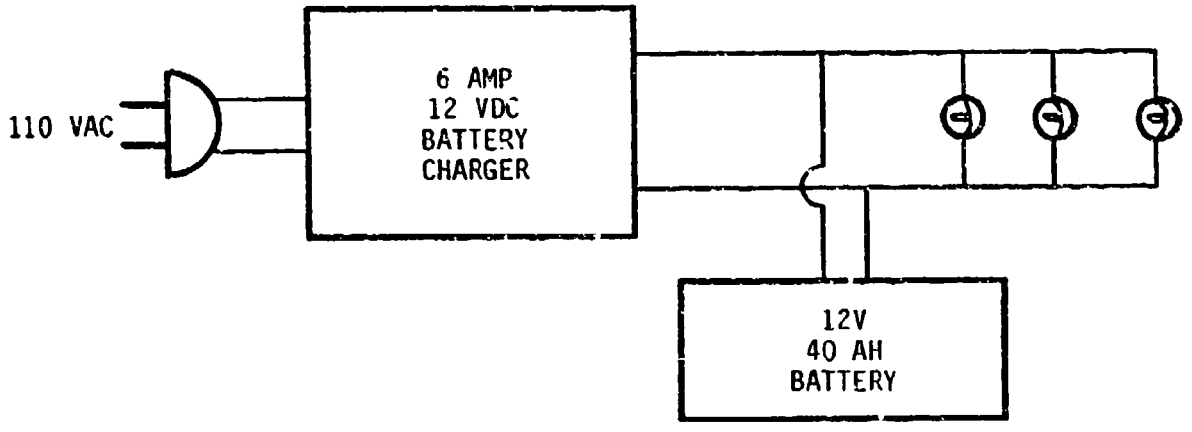


Figure 4. Tungsten iodide lamp.

perimeter configuration. What is not shown is that detection results using CCTV were so near 100 percent that statistical treatment is not useful.

6. TEST DATA

Copies of raw data taken during testing are a part of this report. Since the sheets are not edited, some notes will help to interpret the recorded data.

Each night's testing consisted of 4 shifts. Each shift consisted of 15 false alarms (F), and 5 runs (R) and 5 crawls (C) at each of 3 ranges (1, 2, or 3 corresponding to 700, 800, or 900 feet from the tower).

For each shift there is an intrusion schedule and monitor tally sheets for the tower and TV observers. The observers, Paul and El-Henry (variously identified as El or Ale), are identified on the tally sheets. The monitor filled in detection time and the observers report (VERIFY). Entries in the RESULT column are not uniform but their meaning related to the correctness of the observer's report are clear.

Following the detection data is a listing of the late afternoon weather reports from Washington National Airport and from Dulles International Airport. The reports were obtained by telephone from the Air Weather Service.

Photometer measurements were made using a Photo Research Pritchard Photometer, Model 1980A, provided by MERADCOM.

Data taken on 12/14 were taken in the rain and not included in calculating the results.

REFERENCES

1. Scott, R. C., R. W. Hendrick and T. J. Barrett, Lighting Systems and Artificial Ground Cover (U), Volume I: Summary and Conclusions, Volume II: Technical Report, Volume III: Literature Search Summary, MRC-R-698, Mission Research Corporation, May 1982 (C).

2. Scott, R. C., Plan for Field Test of Selected Lighting and Ground Cover Combinations, MRC-N-481, Mission Research Corporation, November 1981.

MONITOR TALLY SHEET

DATE 11/30 SHIFT _____ STATION _____

INTRUSION SCHEDULE

OBSERVER _____ MONITOR Arms

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	C			
2		F			
3	1	C			
4	3	R			
5	3	C			
6	2	R			
7	2	C			
8	1	R			
9		F			
10		F			
11	3	R			
12	2	C			
13	1	R			
14	2	C			
15	3	C			
16	1	C			
17	2	R			
18	2	R			
19		F			
20	3	C			
21		F			
22		F			
23	1	C			
24		F			
25	3	C			
26	1	C			
27	2	C			
28		F			
29		F			
30	1	R			
31	1	C			
32		F			
33	3	R			
34		F			
35	2	R			
36		F			
37	1	R			
38	1	R			
39		C			
40		F			
41		F			
42	3	C			
43	2	R			
44	3	R			
45	3	R			

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE K/30 SHIFT Test SUPERVISOR TJB

TEST CONFIGURATION: Tower ~~Splitting Herbicides/grass~~

#	RANGE	TYPE	INTRUDER	
1	2	C	3C	2.55
2		F	2W	
3	1	C	1C	6.13
4	3	R	O	—
5	3	C	O	
6	2	R	R3	2.56
7	2	C	C3	2.74
8	1	R	R1	1.88
9		F	OK	
10		F	OK	
11	3	R	O	
12	2	C	C3	3.11
13	1	R	R1	2.23
14	2	C	C3	2.97
15	3	C	O	—
16	1	C	1C	2.49
17	2	R	2R	1.32
18	2	R	2R	1.09
19		F	OK	
~~20~~	~~3~~	~~C~~	~~—~~	
21		F	OK	
22		F	OK	
23	1	C	1C	2.25
24		F	OK	
25	3	C	O	
26	1	C	1C	2.27
27	2	C	2C	2.07
28		F	OK	
29		F	OK	
30	1	R	1R	1.43
31	1	C	1C	2.56
32		F	OK	
33	3	R	O	
34		F	OK	
35	2	R	2R	1.04
36		F	OK	
37	1	R	1R	1.49
38	1	R	1R	1.07
39		F	OK	
40		F	OK	
41		F	OK	
42	3	C	O	
43	2	R	2R	0.49
44	3	R	3R	2.19 not sure
45	3	R	3R	1.79

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 11/30 SHIFT Test STATION TV

OBSERVER _____ MONITOR RCS/Donna

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	C	2.11	+	
2	-	F		+	
3	1	C	3.1	+	
4	3	R	1.5	+	
5	3	C	3.29	+	
6	2	R	1.37	+	
7	2	C	1.34	+	
8	1	R	1.64	+	
9	-	F		+	
10	-	F		+	
11	3	R	1.53	+	
12	2	C	1.13	+	
13	1	R	1.39	+	
14	2	C	1.03	+	
15	3	C	2.38	+	
16	1	C	2.08	+	
17	2	R	1.65	+	} Jiggy mri near box
18	2	R	1.36	+	}
19	-	F		+	
~~20~~	~~3~~	~~C~~	~~—~~	~~—~~	~~—~~
21	-	F		+	
22	-	F		+	
23	1	C	2.43	+	
24	-	F		+	
25	3	C	3.56	+	
26	1	C	1.64	+	
27	2	C	1.45	+	
28	-	F		+	
29	-	F		+	
30	1	R	1.49	+	
31	1	C	1.84	+	
32	-	F		+	
33	3	R	1.32	+	
34	-	F		+	
35	2	R	1.07	+	
36	-	F		+	
37	1	R	1.80	+	
38	1	R	1.14	+	
39	-	F		+	
40	-	F		+	
41	-	F		+	
42	3	C	4.07	+	
43	2	R	0.84	+	
44	3	R	1.95	+	
45	3	R	1.17	+	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 2-2-81 SHIFT 1 SUPERVISOR Rivera

TEST CONFIGURATION: Spots/grass

	#	RANGE	TYPE	INTRUDER
✓	1	2	R	
✓	2	1	R	
✓	3	1	C	
✓	4		F	
✓	5		F	
✓	6	3	R	
✓	7	3	R	
✓	8	1	R	
✓	9		F	
✓	10	2	R	
✓	11		F	
✓	12	3	C	
✓	13	1	R	
✓	14	3	R	
✓	15	3	C	
START ✓	16	~~2~~	~~R~~	
✓	17	2	C	
✓	18	3	C	
✓	19	1	C	
✓	20		F	
✓	21		F	
✓	22	1	R	
✓	23		F	
✓	24	3	C	
✓	25	2	R	
✓	26	2	C	
✓	27		F	
✓	28	1	C	
✓	29	2	C	
✓	30		F	
✓	31	3	C	
✓	32	1	C	
✓	33		F	
✓	34	1	C	
✓	35	2	C	
✓	36	3	R	
✓	37		F	
✓	38	3	R	
✓	39		F	
✓	40	2	C	
✓	41		F	
✓	42	1	R	
✓	43		F	
✓	44	2	~~R~~	
✓	45		F	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

~~3R~~
~~3C~~
~~1C~~
~~1R~~
~~FA~~
~~2C~~
~~3R~~
~~FA~~
~~1R~~
~~2C~~

MONITOR TALLY SHEET

DATE 12/2 SHIFT 1 STATION TV

OBSERVER Raul Clemencia MONITOR RSS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	1.26	2R	
2	1	R	1.81	1R	
3	1	C	3.54	1C	
4	–	F	8.07	F	
5	–	F	8.06	F	
6	3	R	2.12	3R	
7	3	R	2.05	3R	
8	1	R	1.66	1R	
9	–	F	6.49	F	
10	2	R	1.78	2R	
11	–	F	6.64	F	
12	3	C	4.50	3C	
13	1	R	1.34	1R	
14	3	R	1.92	3R	
15	3	C	4.23	3C	
16	2	R	1.68	2R	
17	2	C	[illegible]	[illegible]	
18	3	C	3.43	3C	
19	1	C	4.57	1C	
20	–	F		F	
21	–	F		F	
22	1	R	1.59	1R	
23	–	F		F	
24	3	C	0	3C	
25	2	R	1.38	2R	
26	2	C	2.63	2C	
27	–	F		F	
28	1	C	4.07	1C	
29	2	C	2.58	2C	
30	–	F		F	
31	3	C	4.05	2C	—
32	1	C	4.37	1C	
33	–	F		F	
34	1	C	5.04	1C	
35	2	C	3.55	2C	
36	3	R	1.84	3R	
37	–	F		F	
38	3	R	1.55	2R	—
39	–	F		F	
40	2	C	3.34	2C	
41	–	F		F	
42	1	R	1.33	1R	
43	–	F		F	
44	2	R	1.36	2R	
45	–	F	7.65	F	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

Test	Resp
NOTES	
2 C	1R
2R	2R
3C	3C
1C	1C
1R	1R
1R	1R
F	1=
2C	2C
3R	3R
F	F
1R	1R
2C	2C

Times on false alarms are times when the decision was made

intrusion

MONITOR TALLY SHEET

DATE 12-2 SHIFT 1 STATION Tower

OBSERVER Al MONITOR Jon

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	1.86	+	
2	1	R	2.18	+	
3	1	C	—		
4		F		+	
5		F		+	
6	3	R	2.55	+	
7	3	R	2.50	+	
8	1	R	2.31	—	2R
9		F		+	
10	2	R	2.27	+	
11		F		+	
12	3	C	15.12	+	
13	1	R	2.31	+	
14	3	R	2.69	+	
15	3	C	—		
16	2	R	1.74	+	
17	2	C	—		
18	3	C	—		
19	1	C	—		
20		F		+	
21		F		+	
22	1	R	2.17	+	
23		F		+	
24	3	C	—		
25	2	R	1.75	+	
26	2	C	—		
27		F		+	
28	1	C	13.14	+	
29	2	C	—		
30		F	—		
31	3	C	11.21	+	
32	1	C	—		
33		F		+	
34	1	C	—		
35	2	C	—		
36	3	R	2.47	+	
37		F		+	
38	3	R	2.04	+	
39		F		+	
40	2	C	9.63	+	
41		F		+	
42	1	R	2.16	+	
43		F		+	
44	2	R	1.92	+	
45		F		+	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12-2-81 SHIFT 2 SUPERVISOR Tom

TEST CONFIGURATION: Spots/grass

#	RANGE	TYPE	INTRUDER
1	1	C	✓
2	2	C	✓
3	2	C	✓
4	3	C	✓
5		F	✓
6	1	C	✓
7		F	✓
8	2	R	✓
9	2	R	✓
10	2	R	✓
11	1	C	✓
12	3	R	✓
13	1	C	✓
14		F	✓
15	1	R	✓
16	3	R	✓
17	1	R	✓
18		F	✓
19		F	✓
20		F	✓
21		F	✓
22	3	C	✓
23	2	C	✓
24		F	✓
25	1	R	✓
26	3	C	✓
27	2	C	✓
28	1	R	✓
29	2	R	✓
30		F	✓
31		F	✓
32	2	R	✓
33	3	R	✓
34	3	C	✓
35		F	✓
36	3	C	✓
37		F	✓
38		F	✓
39	1	C	✓
40	2	C	✓
41	1	R	✓
42	3	R	✓
43		F	✓
44	3	R	✓
45		F	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/2/81 SHIFT 2 STATION Tower

OBSERVER Paul MONITOR RMA

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	C	—	0	
2	2	C	—	0	
3	2	C	—	0	
4	3	C	—	0	
5		F	—	F	
6	1	C	10.05	0	2C
7		F	—	F	
8	2	R	—	0	
9	2	R	2.54	2R	
10	2	R	—	0	
11	1	C	—	0	
12	3	R	—	0	
13	1	C	—	0	
14		F	5.80	0	2R
15	1	R	—	0	
16	3	R	—	0	
17	1	R	—	0	
18		F		F	
19		F	—	F	
20		F	—	F	
21		F	—	F	
22	3	C	—	0	
23	2	C	—	0	
24		F	15.20	0	2C
25	1	R	—	0	
26	3	C	5.57	0	2R
27	2	C	—	0	
28	1	R	—	0	
29	2	R	—	0	
30		F	—	F	
31		F	—	F	
32	2	R	—	0	
33	3	R	3.39	3R	
34	3	C	—	0	
35		F	9.30	0	1R
36	3	C	13.45	0	2R
37		F	15.41	0	1C
38		F	—	F	
39	1	C	—	0	
40	2	C	16.28	0	1C
41	1	R	—	0	
42	3	R	6.34	0	2R
43		F	—	F	
44	3	R	7.14	0	2C
45		F	10.31	0	2C

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

1 — F-0
2 — 2R ? 2.5 ?
3 = F-0
4 — F-0
5 — 1C - 7.52
6 — F-0
7 — 3C - 7.09
8 — F-0
9 — ~~2 5.42~~ F-0
10 — 2R - 5.42

MONITOR TALLY SHEET

DATE 12/2 SHIFT 2 STATION TV

OBSERVER Alc Henry MONITOR Scott

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	C	3.13	1C	+
2	2	C	2.14	2C	+
3	2	C	3.06	2C	+
4	3	C	3.70	3C	+
5	--	F	15.9	F	+
6	1	C	4.68	1C	+
7	-	F	1.43	2R	+
8	2	R	1.37	2R	+
9	2	R	0.83	2R	+
10	2	R	4.71	1C	+
11	1	C	my error		
12	3	R	1.19	3R	+
13	1	C	7.69	1C	+
14	-	F		F	+
15	1	R	1.60	1R	+
16	3	R	2.24	3R	+
17	1	R	1.53	1R	+
18	-	F	14.89	F	+
19	-	F	13.94	F	+
20	-	F	20.6	F	+
21	-	F		F	+
22	3	C	6.82	3C	+
23	2	C	4.69	2C	+
24	-	F	19.22	F	+
25	1	R	1.48	1R	+
26	3	C	3.94	3C	+
27	2	C	2.27	2C	+
28	1	R	1.61	1R	+
29	2	R	1.32	2R	+
30	-	F	17.68	F	+
31	-	F	15.58	F	+
32	2	R	1.22	2R	+
33	3	R	1.54	3R	+
34	3	C	3.60	3C	+
35	-	F	13.73	F	+
36	3	C	8.11	3C	+
37	-	F	14.30	F	+
38	-	F	15.53	F	+
39	1	C	4.42	1C	+
40	2	C	2.48	2C	+
41	1	R	1.60	1R	+
42	3	R	1.73	3R	+
43	-	F	14.25	F	+
44	3	R	1.30	3R	+
45	-	F		F	+

start → (row 31)

slow start (row 36)

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

Practice		Response
3C	3C	6.40
2R	2R	1.45
2C	2C	
F	F	7.64
2C	2C	2.21
2R	2R	1.56
1C	1C	8.28
F	F	12.25
3R	3R	1.43
1R	1R	1.04

INTRUSION SCHEDULE

DATE 12/2 SHIFT 3 SUPERVISOR SCOTT

TEST CONFIGURATION: SPOTS/GRASS

#	RANGE	TYPE	INTRUDER
1	2	C	
2	1	C	
3	1	R	
4		F	
5		F	
6	3	C	
7		F	
8	2	R	
9	1	C	
10	1	R	
11	2	C	
12	2	R	
13		F	
14		F	
15	3	C	
16	3	C	
17	2	C	
18	3	R	
19	3	R	
20	1	C	
21	3	R	
22	3	C	
23		F	
24		F	
25	1	C	
26		F	
27	3	R	
28		F	
29	1	R	
30		F	
31	2	R	
32		F	
33	2	C	
34	2	C	
35	1	R	
36	2	R	
37		F	
38	3	R	
39		F	
40	1	C	
41		F	
42	1	R	
43		F	
44	3	C	
45	2	R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/2/81 SHIFT 3 STATION Tower

OBSERVER [illegible] Henry MONITOR RMA

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	C	—	0	0
2	1	C	14.61	1C	+
3	1	R	1.99	1R	+
4		F	—	F	+
5		F	—	F	+
6	3	C	8.91	3C	+
7		F	—	F	+
8	2	R	1.44	2R	+
9	1	C	16.15	1C	+
10	1	R	1.97	1R	+
11	2	C	9.80	2C	+
12	2	R	1.59	2R	+
13		F	—	F	+
14		F	—	F	+
15	3	C	12.73	3C	+
16	3	C	10.86	2C	0
17	2	C	17.17	2C	+
18	3	R	2.12	3R	+
19	3	R	2.22	3R	+
20	1	C	—	0	0
21	3	R	2.26	3R	+
22	3	C	—	0	0
23		F	—	F	+
24		F	12.50	3C	0
25	1	C	14.50	2C	0
26		F	—	F	+
27	3	R	1.82	3R	+
28		F	—	F	+
29	1	R	3.32	1R	+
30		F	—	F	+
31	2	R	1.79	2R	+
32		F	—	F	+
33	2	C	5.34	2C	+
34	2	C	—	0	0
35	1	R	2.65	1R	+
36	2	R	1.56	2R	+
37		F	—	F	+
38	3	R	1.89	3R	+
39		F	—	F	+
40	1	C	14.12	1C	+
41		F	—	F	+
42	1	R	1.44	1R	+
43		F	—	F	+
44	3	C	16.96	3C	+
45	2	R	1.69	2R	+

shirt

Rocks, like 1C

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

General Comment:
If he does not look down lights & stands off to side away from light path, he can detect better

MONITOR TALLY SHEET

DATE 12-2-81 SHIFT 3 STATION CCTV

OBSERVER Paul MONITOR Jose

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	C	2.19	+	2C
2	1	C	4.55	+	1C
3	1	R	1.52	+	1R
4		F		+	
5		F		+	
6	3	C	8.43	+	3C
7		F		+	
8	2	R	1.03	+	2R
9	1	C	5.28	+	1C
10	1	R	1.42	+	1R
11	2	C	2.71	+	2C
12	2	R	1.07	+	2R
13		F		+	
14		F		+	
15	3	C	4.25	+	3C
16	3	C	4.33	+	3C
17	2	C	2.35	+	2C
18	3	R	1.72	+	3R
19	3	R	2.22	+	3R
20	1	C	7.64	+	1C
21	3	R	2.04	+	3R
22	3	C	6.20	+	3C
23		F		+	
24		F		+	
25	1	C	5.32	+	1C
26		F		+	
27	3	R	1.70	+	3R
28		F		+	
29	1	R	2.08	+	1R
30		F		+	
31	2	R	1.54	+	2R
32		F		+	
33	2	C	2.80	+	2C
34	2	C	2.97	+	2C
35	1	R	2.27	+	1R
36	2	R	1.34	+	2R
37		F		+	
38	3	R	1.59	+	3R
39		F		+	
40	1	C	4.32	+	1C
41		F		+	
42	1	R	2.06	+	1R
43		F		+	
44	3	C	3.82	+	3C
45	2	R	1.63	+	2R

RANGE
1 700 feet
2 800 feet
3 900 feet

10.50

TYPE ← Intruder got hung up.
12.82 Run
C Crawl
F False

NOTES

9.63
11.23
22.71
16.76
13.76
15.50
12.00
10.52
9.97
10.08
9.96
10.01

INTRUSION SCHEDULE

DATE 12-2-81 SHIFT 4 SUPERVISOR Tom

TEST CONFIGURATION: Spots/grass

#	RANGE	TYPE	INTRUDER
1	2	R	✓
2	2	C	✓
3	2	R	✓
4	1	R	✓
5	2	R	✓
6	3	R	✓
7	2	C	✓
8	1	R	✓
9		F	✓
10	1	R	✓
11	3	C	✓
12	2	R	✓
13	3	C	✓
14		F	✓
15	1	R	✓
16	2	C	✓
17	3	R	✓
18		F	✓
19	1	R	✓
20	1	C	✓
21	3	C	✓
22	3	C	✓
23		F	✓
24		F	✓
25	2	C	✓
26		F	✓
27		F	✓
28	1	C	✓ E
29	2	C	✓ J
30	2	R	✓
31	1	C	✓
32		F	✓
33		F	✓
34	3	R	✓
35		F	✓
36	3	C	✓
37		F	✓
38	1	C	✓
39		F	✓
40		F	✓
41	3	R	✓
42	1	C	✓
43		F	✓
44	3	R	✓
45		F	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/7/81 SHIFT 4 STATION CCTV

OBSERVER El Henry MONITOR RMA

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	0.88	2R	+
2	2	C	1.44	2C	+
3	2	R	1.05	2R	+
4	1	R	1.48	1R	+
5	2	R	0.88	2R	+
6	3	R	0.91	3R	+
7	2	C	2.43	2C	+
8	1	R	1.17	1R	+
9		F	14.10	F	+
10	1	R	1.84	1R	+
11	3	C	2.47	3C	+
12	2	R	1.42	2R	+
13	3	C	1.88	3C	+
14		F	11.29	F	+
15	1	R	1.46	1R	+
16	2	C	1.35	2C	+
17	3	R	1.12	3R	+
18		F	13.16	F	+
19	1	R	0.89	1R	+
20	1	C	4.86	1C	+
21	3	C	1.68	3C	+
22	3	C	4.58	3C	+
23		F	18.20	F	+
24		F	23.29	F	+
25	2	C	2.68	2C	+
26		F	19.28	F	+
27		F	18.20	F	+
28	1	C	7.36	1C	+
29	2	C	1.91	2C	+
30	2	R	1.22	2R	+
31	1	C	4.67	1C	+
32		F	20.65	F	+
33		F	21.63	F	+
34	3	R	1.40	3R	+
35		F	20.39	F	+
36	3	C	1.83	3C	+
37		F	24.58	F	+
38	1	C	4.56	1C	+
39		F	24.74	F	+
40		F	22.74	F	+
41	3	R	1.09	3R	+
42	1	C	4.85	1C	+
43		F	-	0	0
44	3	R	1.09	3R	+
45		F	16.28	F	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

called 1 foot

Start

Zeroed out ?

MONITOR TALLY SHEET

DATE 12/2 SHIFT 4 STATION Tower

OBSERVER Paul MONITOR Scott

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	—	—	—
2	2	C	16.37	3C	—
3	2	R	—	—	—
4	1	R	2.81	1R	+
5	2	R	1.7	2R	+
6	3	R	—	—	—
7	2	C	—	—	—
8	1	R	2.90	2R	—
9	—	F	20.10	2C	—
10	1	R	—	—	—
11	3	C	27.17	2C	—
12	2	R	—	—	—
13	3	C	13.16	2C	—
14	—	F		F	—
15	1	R	2.92	1R	+
16	2	C	8.45	1C	—
17	3	R	—	—	—
18	—	F		F	+
19	1	R	—	—	—
20	1	C	14.6	2C	—
21	3	C	—	—	—
22	3	C	—	—	—
23	—	F	16.04	1C	—
24	—	F	—	F	—
25	2	C	—	—	—
26	—	F	12.02	3C	—
27	—	F		F	+
28	1	C	—	—	—
29	2	C	16.90	1C	—
30	2	R	—	—	—
31	1	C	—	—	—
32	—	F	—	F	+
33	—	F		F	+
34	3	R	3.23	1R	—
35	—	F		F	+
36	3	C	13.6	2C	—
37	—	F		F	+
38	1	C	18.40	3C	—
39	—	F		F	+
40	—	F		F	+
41	3	R	—	—	—
42	1	C	—	—	—
43	—	F	12.1	2R	—
44	3	R	—	—	—
45	—	F	—	F	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

standing back from the window

saw him coming back

INTRUSION SCHEDULE

DATE 12/3 SHIFT 1 SUPERVISOR _____

TEST CONFIGURATION: SPOTS/GRASS

#	RANGE	TYPE	INTRUDER
1	3	C	✓
2	1	R	✓
3	2	R	✓
4	3	R	✓
5		F	✓
6		F	✓
7	2	R	✓
8	3	R	✓
9	1	R	✓
10	1	C	✓
11		F	✓
12	3	C	✓
13	2	C	✓
14	3	R	✓
15		F	✓
16	3	R	✓
17		F	✓
18	1	C	✓
19		F	✓
20	3	R	✓
21	2	C	✓
22	1	R	✓
23		F	✓
24	1	R	✓
25		F	✓
26	2	C	✓
27		F	✓
28	2	R	✓
29	2	C	✓
30	3	C	✓
31		F	✓
32	1	C	✓
33	1	R	✓
34		F	✓
35	1	C	✓
36		F	✓
37		F	✓
38	2	R	✓
39	1	C	✓
40		F	✓
41	2	R	✓
42		F	✓
43	2	C	✓
44	3	C	✓
45	3	C	✓

RANGE

1 700 feet
2 800 feet
3 900 feet

TYPE

R Run
C Crawl
F False

NOTES

2 C ✓
F ✓
1 R ✓
1 C ✓
3 C ✓
2 R ✓
3 R ✓
F ✓
1 R ✓
2 C ✓

MONITOR TALLY SHEET

DATE 12-3-81 SHIFT 1 STATION Tower

OBSERVER Paul C MONITOR Donna

21.76
2.65

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	C	~~[illegible]~~	~~[illegible]~~	+
2	1	R	~~[illegible]~~	~~[illegible]~~	+
3	2	R			—
4	3	R	21.44	1C	—
5		F			+
6		F	4.36	R2	—
7	2	R	—		—
8	3	R	—		—
9	1	R	2.20	1R	+
10	1	C	15.37	C2	
11		F			+
12	3	C	—		—
13	2	C	4.94	3R	—
14	3	R	15.29	2C	—
15		F			+
16	3	R			—
17		F			+
18	1	C			—
19		F	21.77	3C	—
20	3	R			—
21	2	C	16.80		+
22	1	R	2.19		+
23		F	4.05	2R	—
24	1	R	2.77		+
25		F			+
26	2	C	13.63	1C	—
27		F			+
28	2	R	2.29		+
29	2	C			—
30	3	C	22.04		+
31		F	9.46	2C	—
32	1	C	21.57	2C	—
33	1	R	1.59		+
34		F			+
35	1	C	21.48	2C	*
36		F	21.12	2C	—
37		F			+
38	2	R			—
39	1	C			—
40		F			+
41	2	R	2.40		+
42		F			+
43	2	C	12.78		+
44	3	C	13.26	2C	—
45	3	C			—

[illegible] — [illegible] "[illegible]" when the range markers are on the CCTV

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

√ 2C 11.72 T
√ F 11.37 C2
√ 1R 12.57 C3
√ 1C —
√ 3C 21.33 2C
√ 2R 12.24 [illegible]C
√ 3R —
√ F —
√ 1R 3.68 1R+
√ 2C —

decides at fence where it seems closer to two

I think he does see 1C when [illegible] but not 2C very well

(Strategies for scanning can [illegible] [illegible] could well account for difference in observers)

MONITOR TALLY SHEET

DATE 12/3/81 SHIFT 1 STATION CCTV

OBSERVER El Henry MONITOR RMA

Start - 18:16
end - 19:00

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	C	5.15	3C	+
2	1	R	1.25	1R	+
3	2	R	0.67	2R	+
4	3	R	1.52	3R	+
5	-	F	22.67	F	+
start → 6	-	F	17.37	F	+
7	2	R	1.06	2R	+
8	3	R	1.21	3R	+
9	1	R	1.55	1R	+
10	1	C	3.80	1C	+
11	-	F	16.83	F	+
12	3	C	6.12	3C	+
13	2	C	2.40	2C	+
14	3	R	1.30	3R	+
15	-	F	21.12	F	+
16	3	R	1.49	3R	+
pause 45 minutes 17	—	F	0	0	0
18	1	C	5.34	1C	+
19	—	F	16.51	F	+
20	3	R	1.29	3R	+
21	2	C	9.21	2C	+
22	1	R	1.42	1R	+
23	—	F	17.13	F	+
24	1	R	1.46	1R	+
25	—	F	18.24	F	+
26	2	C	1.87	2C	+
27	—	F	13.51	F	+
28	2	R	1.46	2R	+
29	2	C	1.77	2C	+
30	3	C	6.16	3C	+
31	—	F	18.78	F	+
32	1	C	5.41	1C	+
33	1	R	1.70	1R	+
34	—	F	19.40	F	+
35	1	C	5.93	1C	+
36	—	F	19.06	F	+
37	--	F	18.00	F	+
38	2	R	1.20	2R	+
39	1	C	5.46	1C	+
40	—	F	—	0	0
41	2	R	1.07	2R	+
42	—	F	16.21	F	+
43	2	C	1.61	2C	+
44	3	C	3.69	3C	+
45	3	C	3.59	3C	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
2C - 1.79 - 2C - +
F - 10.74 - F - +
1R - 1.26 - 1R - +
1C - 4.96 - 1C - +
3C - 2.56 - 3C - +
2R - 1.20 - 2R - +
3R - 1.20 - 3R - +
F - 12.05 - F - +
1R - 2.35 - 1R - +
2C - 1.41 - 2C - +

Some crawls start ~ 2 sec-4 seconds after the buzzer starts.

INTRUSION SCHEDULE

DATE 12/3/81 SHIFT 2 SUPERVISOR RMH

TEST CONFIGURATION: Spots/grass

#	RANGE	TYPE	INTRUDER
1	3	C	✓
2	–	F	✓
3	1	C	✓
4	2	C	✓
5	2	R	✓
6	–	F	✓
7	3	R	✓
8	–	F	✓
9	2	C	✓
10	3	C	✓
11	2	R	✓
12	1	R	✓
13	3	R	✓
14	3	C	✓
15	–	F	✓
16	1	R	✓
17	1	C	✓
18	2	C	✓
19	3	R	✓
20	3	C	✓
21	2	C	✓
22	1	C	✓
23	–	F	✓
24	–	F	✓
25	2	C	✓
26	–	F	✓
27	–	F	✓
28	2	R	✓
29	1	C	✓
30	1	R	✓
31	3	R	✓
32	–	F	✓
33	1	R	✓
34	–	F	✓
35	3	R	✓
36	2	R	✓
37	1	C	✓
38	1	R	✓
39	–	F	✓
40	3	C	✓
41	–	F	✓
42	2	R	✓
43	–	F	✓
44	–	F	✓
45	–	F	✓

start

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-3-81 SHIFT 2 STATION Tower

OBSERVER AL EL MONITOR Jim

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	C	—	—	
2		F		+	
3	1	C	16.39	+	1C
4	2	C	7.37	+	2C
5	2	R	1.52	+	2R
6		F		+	
7	3	R	1.51	+	3R
8		F		+	
9	2	C	5.98	+	2C
10	3	C	10.91	+	3C
11	2	R	1.58	+	2R
12	1	R	2.85	+	1R
13	3	R	2.05	+	3R
14	3	C	10.88	+	3C
15		F		+	
16	1	R	1.85	+	1R
17	1	C	7.26	+	1C
18	2	C	12.48	+	2C
19	3	R	1.65	+	3R
20	3	C	—	—	
21	2	C	19.42	+	2C
22	1	C	7.99	+	1C
23		F		+	
24		F		+	
25	2	C	12.87	+	2C
26		F		+	
27		F		+	
28	2	R	1.75	+	2R
29	1	C	5.76	+	1C
30	1	R	1.73	—	2R
31	3	R	—	—	
32		F		+	
33	1	R	1.98	+	1R
34		F		+	
35	3	R	2.16	+	3R
36	2	R	1.71	+	2R
37	1	C	13.98	+	1C
38	1	R	1.52	+	1R
39		F		+	
40	3	C	16.31	+	3C
41		F		+	
42	2	R	2.43	+	2R
43		F		+	
44		F		+	
45		F		+	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

2C + 11.56
1R + 1.76
F +
3R + 2.3
2C + 13.82
F +
1R + 1.75
1C + 13.02
3C + 13.5
2R + 1.87

MONITOR TALLY SHEET

DATE 12/3 SHIFT 2 STATION IV

OBSERVER P. Clementsi MONITOR Scott

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	C	9.65	2C	—
2		F	13.46	F	+
3	1	C	8.54	1C	+
4	2	C	3.20	2C	+
5	2	R	1.29	2R	+
6		F	13.79	F	+
7	3	R	1.37	3R	+
8		F	14.51	F	+
9	2	C	2.39	2C	+
10	3	C	3.02	3C	+
11	2	R	1.48	2R	+
12	1	R	2.05	1R	+
13	3	R	1.40	3R	+
14	3	C	3.56	3C	+
15		F	14.12	F	+
16	1	R	1.58	1R	+
17	1	C	6.29	1C	+
18	2	C	2.38	2C	+
19	3	R	1.31	3R	+
20	3	C	5.24	3C	+
21	2	C	4.67	2C	+
22	1	C	4.73	1C	+
23		F	13.17	F	+
24		F	15.48	F	+
25	2	C	2.63	2C	+
26		F	13.37	F	+
27		F	13.54	F	+
28	2	R	1.45	2R	+
29	1	C	3.96	1C	+
30	1	R	1.83	1R	+
31	3	R	2.22	3R	+
32		F	14.64	F	+
33	1	R	1.77	1R	+
34		F	12.77	F	+
35	3	R	1.54	3R	+
36	2	R	1.42	2R	+
37	1	C	4.12	1C	+
38	1	R	1.52	1R	+
39		F	17.03	F	+
40	3	C	9.46	3C	+
41		F	14.08	F	+
42	2	R	1.47	2R	+
43		F	14.18	F	+
44		F	13.87	F	+
45		F	16.21	F	+

he knew it

1933

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

	Obs Response	
2C	2C	5.35
1R	1R	1.80
F	F	9.04
3R	3R	1.73
2C	2C	4.11
F	F	8.16
1R	1R	1.38
1C	1C	8.06
3C	3C	4.13
2R	2R	1.47

Start: 1933
Finish: 2014

INTRUSION SCHEDULE

DATE 12-3-81 SHIFT 3 SUPERVISOR Scott

TEST CONFIGURATION: Spots/grass

#	RANGE	TYPE	INTRUDER
1		F	
2		F	
3	3	C	
4	3	R	
5	1	C	
6		R	
7	1	C	
8	1	C	
9	3	C	
10	3	C	
11		F	
12		F	
13	3	R	
14		F	
15	3	R	
16	1	C	
17	3	C	
18		F	
19	2	R	
20	1	R	
21		F	
22	2	C	
23		F	
24		F	
25		F	
26	1	R	
27	1	C	
28	1	R	
29		F	
30	1	C	
31		R	
32	1	R	
33	3	R	
34	2	C	
35	3	R	
36	2	R	
37	2	C	
38	2	C	
39	3	C	
40	2	C	
41	2	R	
42		F	
43	2	R	
44		F	
45	2	R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/3 SHIFT 3 STATION Tower

OBSERVER Paul MONITOR RMA

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	–	F	+
2		F	–	F	+
3	3	C	0	0	0
4	3	R	0	0	0
5	1	C	14.11	2C	0
6		F	–	F	+
7	1	R	2.73	1R	+
8	1	C	0	0	0
9	3	C	0	0	0
10	3	C	0	0	0
11		F	–	F	+
12		F	–	F	+
13	3	R	0	0	0
14		F	16.21	2C	0
15	3	R	0	0	0
16	1	C	21.14	3C	0
17	3	C	0	0	0
18		F	–	F	+
19	2	R	18.58	2C	0
20	1	R	3.00	1R	+
21		F	–	F	+
22	2	C	0	0	0
23		F	19.86	2C	0
24		F	27.49	3C	0
25		F	–	F	+
26	1	R	2.27	1R	+
27	1	C	12.16	1C	+
28	1	R	3.19	1R	+
29		F	23.57	2C	0
30	1	C	0	0	0
31		F	20.41	2C	0
32	1	R	2.58	1R	+
33	3	R	4.28	2R	0
34	2	C	17.76	3C	0
35	3	R	0	0	0
36	2	R	21.39	2C	0
37	2	C	21.90	2C	+
38	2	C	0	0	0
39	3	C	0	0	0
40	2	C	0	0	0
41	2	R	20.29	2C	0
42		F	–	F	+
43	2	R	0	0	0
44		F	21.89	3C	0
45	2	R	0	0	0

Start

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
Turning 2C

MONITOR TALLY SHEET

DATE 14/3/81 SHIFT 3 STATION CCTV

OBSERVER Ale MONITOR Jon

START 20:40:31
End 21:28:03

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT	
1	–	F	14.13	+		
2	–	F	——	—		
3	3	C	3.23	+	3C	
4	3	R	1.38	+	3R	
5	1	C	4.02	+	1C	
6	--	F	9.25	+		
7	1	R	1.29	+	1R	
8	1	C	5.07	+	1C	
9	3	C	2.22	+	3C	
10	3	C	2.05	+	3C	
11	-	F	12.43	+		
12	–	F	12.69	+		
13	3	R	0.15	+	3R	
14	–	F	10.51	+		
15	3	R	1.52	+	3R	
16	1	C	3.88	+	1C	G
17	3	C	2.78	+	3C	
18	–	F	15.13	+		
19	2	R	0.94	+	2R	
20	1	R	1.76	+ –	3R-1R	– said it wrong, Sorry –
21	–	F	16.86	+		
22	2	C	1.68	+	2C	J
23	–	F	15.23	+		
24	–	F	15.38	+		
25	–	F	15.25	+		
26	1	R	2.11	+	1R	J
27	1	C	4.15	+	1C	
28	1	R	2.39	+	1R	
29	–	F	10.69	+		
30	1	C	5.84	+	1C	G
31		F	15.71	+		
32	1	R	1.56	+	1R	
33	3	R	0.98	+	3R	
34	2	C	2.13	+	2C	
35	3	R	1.09	+	3R	
36	2	R	0.76	+	2R	
37	2	C	1.79	+	2C	
38	2	C	1.69	+	2C	
39	3	C	4.39	+	3C	
40	2	C	1.88	+	2C	J
41	2	R	1.12	+	2R	
42	[redacted]	F	14.31	+		
43	2	R	0.99	+	2R	
44		F	16.73	+		
45	2	R	1.14	+	2R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12/3 SHIFT 4 SUPERVISOR [illegible]

TEST CONFIGURATION: Spots/grass

#	RANGE	TYPE	INTRUDER
1	3	R	✓
2	1	C	✓
3		F	✓
4	2	R	✓
5	2	R	✓
6		F	✓
7	1	R	✓
8		F	✓
9	3	C	✓
10	1	R	✓
11		F	✓
12	1	C	✓
13	1	C	✓
14	3	C	✓
15		F	✓
16	1	R	✓
17		F	✓
18	2	C	✓
19	2	C	✓
20	2	C	✓
21	1	C	✓
22		F	✓
23	3	R	✓
24	3	C	✓
25	3	C	✓
26	2	R	✓
27		F	✓
28	1	R	✓
29	2	C	✓
30		F	✓
31	2	R	✓
32	1	R	✓
33	3	R	✓
34		F	✓
35	2	R	✓
36		F	✓
37	2	R	✓
38		F	✓
39		F	✓
40	3	R	✓
41		F	✓
42	3	C	✓
43		F	✓
44	1	C	✓
45	2	C	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/3/81 SHIFT 4 STATION CCTV

OBSERVER Paul MONITOR RmA

21:45 → 22:20

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT	
1	3	R	1.11	3R	+	
2	1	C	5.86	1C	+	
3	–	F	10.14	F	+	
4	2	R	1.37	2R	+	
5	2	R	1.49	2R	+	
6	–	F	9.58	F	+	
7	1	R	1.30	1R	+	
8	–	F	8.60	F	+	
9	3	C	1.91	3C	+	
10	1	R	1.83	1R	+	
11	–	F	12.11	F	+	short →
12	1	C	4.09	1C	+	
13	1	C	3.28	1C	+	
14	3	C	6.50	3C	+	
15	–	F	11.05	F	+	
16	1	R	1.34	1R	+	
17	–	F	9.35	F	+	
18	2	C	2.31	2C	+	
19	2	C	2.73	2C	+	
20	2	C	2.45	2C	+	
21	1	C	4.95	1C	+	
22	–	F	9.42	F	+	
23	3	R	1.34	3R	+	
24	3	C	2.15	3C	+	
25	3	C	5.02	2C	0	mistaken, should have called 3C said "blew that one! Range error"
26	3	R	1.36	3R	+	
27	–	F	11.92	F	+	
28	1	R	1.54	1R	+	
29	2	C	2.74	2C	+	
30	–	F	11.87	F	+	
31	2	R	1.13	2R	+	
32	1	R	1.17	1R	+	
33	3	R	1.21	3R	+	
34	–	F	9.72	F	+	
35	2	R	0.75	2R	+	
36	–	F	10.01	F	+	
37	2	R	1.02	2R	+	
38	–	F	10.33	F	+	
39	–	F	10.15	F	+	
40	3	R	1.35	3R	+	
41	–	F	10.68	F	+	
42	3	C	3.09	3C	+	
43	–	F	9.65	F	+	
44	1	C	4.56	1C	+	
45	2	C	2.24	2C	+	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-3-81 SHIFT 4 STATION _____

OBSERVER E-1 MONITOR Donna

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	R	1.06		+
2	1	C	5.51		+
3		F			+
4	2	R	.93		+
5	2	R	1.22		+
6		F			+
7	1	R	1.29		+
8		F			+
9	3	C			—
10	1	R	2.06		+
Test 11		F			+
12	1	C	3.01		+
13	1	C	2.25		+
14	3	C	12.16		+
15		F			+
16	1	R	1.66		+
17		F			+
18	2	C	10.20		+
19	2	C	4.71		+
20	2	C	3.86		+
21	1	C	5.49		+
22		F			+
23	3	R	1.64		+
24	3	C			—
25	3	C			—
26	3	R	1.19		+
27		F			+
28	1	R	1.56		+
29	2	C	8.43		+
30		F			+
31	2	R	1.19		+
32	1	R	1.30		+
33	3	R	1.08		+
34		F			+
35	2	R	.95		+
36		F			+
37	2	R	.90		+
38		F			+
39		F	9.09	3C	—
40	3	R	1.67		+
41		F			+
42	3	C			—
43		F			+
44	1	C	3.69		+
45	2	C	14.78		+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12-4-81 SHIFT 1 SUPERVISOR Arine

TEST CONFIGURATION: Reflectors/spots

#	RANGE	TYPE	INTRUDER
1	2	R	✓
2	3	C	✓
3		F	✓
4		F	✓
5	1	C	✓
6	1	R	✓
7	2	C	✓
8		F	✓
9	1	C	✓
10	3	C	✓
11	2	C	✓
12		F	✓
13	1	R	✓
14	3	R	✓
15	1	C	✓
16	1	C	✓
17	2	C	✓
18	1	C	✓
19	3	C	✓
20	2	C	✓
21	2	C	✓
22		F	✓
23	3	R	✓
24	3	R	✓
25		F	✓
26		F	✓
27	3	R	✓
28		F	✓
29	3	R	✓
30	1	R	✓
31		F	✓
32		F	✓
33	1	R	✓
34	3	C	✓
35	3	C	✓
36	1	R	✓
37	2	R	✓
38	2	R	✓
39		F	✓
40		F	✓
41		F	✓
42	2	C	✓
43	2	R	✓
44		F	✓
45		F	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
Trial
3C ✓
1R ✓
2C ✓
1C ✓
F ✓
2R ✓
F ✓
2C ✓
3R ✓
1R ✓

MONITOR TALLY SHEET

DATE 12-4-81 SHIFT 1 STATION CCTV

OBSERVER El MONITOR DC

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	1.80		+
2	3	C	4.60		+
3	–	F	15.14		+
4	–	F	16.69		+
5	1	C	2.88		+
6	1	R	1.78		+
7	2	C	7.24		+
8	–	F	16.58		+
9	1	C	3.13		+
10	3	C	6.26		+
11	2	C	4.70		+
12	–	F	12.41		+
13	1	R	1.70		+
14	3	R	1.92		+
Start 15	1	C	4.19		+
16	1	C	3.79		+
17	2	C	5.83		+
18	1	C	3.58		+
19	3	C	6.32		+
20	2	R	2.32		+
21	2	C	5.37		+
22	–	F	16.55		+
23	3	R	2.06		+
24	3	R	1.94		+
25	–3	F	14.48		+
26	–	F	11.85		+
27	3	R	1.81		+
28	–	F	14.61		+
29	3	R	1.79		+
30	1	R	2.25		+
31	–	F	10.20		+
32	–	F	11.72		+
33	1	R	2.37		+
34	3	C	3.04		+
35	3	C	3.86		+
36	1	R	2.09		+
37	2	R	1.80		+
38	2	R	1.66		+
39	–	F	12.27		+
40	–	F	15.06		+
41	–	F	11.15		+
42	2	C	7.00		+
43	2	R	1.88		+
44	–	F	15.29		+
45	–	F	15.55		+

RANGE

1 700 feet

2 800 feet

3 900 feet

TYPE

R Run

C Crawl

F False

NOTES

Small monitor jitters FF

measure distance from bldg to fence/road

times are inflated due to "blind" distance between fence & baffles

3C 8.63

1R 1.54

2C 8.00

1C 3.17

F 9.37+

2R 1.94

F 9.32+

2C 8.48

3R 1.55

1R 1.78

MONITOR TALLY SHEET

DATE 12-4-81 SHIFT 1 STATION Tooort 3,9 A

OBSERVER Clementsis MONITOR RFS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	1.77	2R	+
2	3	C	6.68	2C	—
3		F		F	+
4		F		F	+
5	1	C	3.58	1C	+
6	1	R	1.72	1R	
7	2	C	8.59	2C	
8		F		F	
9	1	C	4.71	1C	
10	3	C	7.49	3C	
11	2	C	7.97	2C	
12		F		F	
13	1	R	1.72	1R	
14	3	R	2.03	3R	
15	1	C	5.76	1C	+
16	1	C	4.82	1C	+
17	2	C	9.27	2C	+
18	1	C	4.91	1C	+
19	3	C	9.36	3C	+
20	2	R	2.25	2R	+
21	2	C	11.24	2C	+
22		F	15.44	2C	—
23	3	R	2.25	3R	+
24	3	R	1.96	3R	+
25		F		F	+
26		F		F	+
27	3	R	2.06	3R	+
28		F		F	+
29	3	R	1.97	2R	—
30	1	R	2.47	1R	+
31		F		F	+
32		F		F	+
33	1	R	2.78	1R	+
34	3	C	9.14	3C	+
35	3	C	8.42	2C	—
36	1	R	2.18	1R	+
37	2	R	1.82	2R	+
38	2	R	1.87	2R	+
39		F		F	+
40		F		F	+
41		F		F	+
42	2	C	8.73	2C	+
43	2	R	2.1	2R	+
44		F		F	+
45		F		F	+

1839

start 1839
finish 1916

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

3C	3C	14.68
1R	1R	1.70
2C	2C	9.34
1C	1C	5.59
F	F	
2R	2R	2.28
F	F	
2C	2C	10.64
3R	2R	1.92 (-)
trying too hard 1R	1R	1.79

INTRUSION SCHEDULE

DATE 1/4/81 SHIFT 2 SUPERVISOR RGS

TEST CONFIGURATION: Reflectors/spots

#	RANGE	TYPE	INTRUDER
1	1	F	
2	3	R	
3	1	R	
4	1	C	
5		F	
6	2	C	
7	2	C	
8	3	R	
9		F	
10		F	
11	2	R	
12		F	
13		F	
14	2	C	
15	1	R	
16	2	R	
17	3	C	
18	1	R	
19	3	C	
20	1	R	
21		F	
22		F	
23	3	C	
24		F	
25		F	
26	1	C	
27	1	C	
28		F	
29		F	
30	3	R	
31	2	C	
32		F	
33	2	R	
34		F	
35	2	R	
36	1	R	
37	3	C	
38	2	C	
39	1	C	
40		F	
41	3	R	
42	2	R	
43	3	R	
44	3	C	
45	1	C	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

14

MONITOR TALLY SHEET

DATE 12/4/81 SHIFT #2 STATION CCTV

OBSERVER Paul MONITOR Jim

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	1.39	+	F
2	3	R	1.67	+	3R
3	1	R	2.11	+	1R
4	1	C	2.64	+	1C
5		F	10.99	+	F
6	2	C	7.57	+	2C
7	2	C	5.43	+	2C
8	3	R	1.84	+	3R
9		F	12.38	+	F
10		F	13.07	+	F
11	2	R	1.51	+	2R
12		F	14.02	+	F
13		F	13.39	+	F
14	2	C	3.41	+	2C
15	1	R	1.65	+	1R
16	2	R	1.63	+	2R
17	3	C	5.43	+	3C
18	1	R	1.48	+	1R
19	3	C	4.41	+	3C
20	1	R	1.46	+	1R
21		F	13.46	+	F
22		F	12.18	+	F
23	3	C	9.58	+	3C
24		F	15.14	+	F
25		F	15.34	+	F
26	1	C	4.10	+	1C
27	1	C	3.49	+	1C
28		F	17.28	+	F
29		F	19.39	+	F
30	3	R	1.40	+	3R
31	2	C	5.63	+	2C
32		F	18.74	+	F
33	2	R	1.75	+	2R
34		F	10.97	+	F
35	2	R	1.54	+	2R
36	1	R	2.09	+	1R
37	3	C	4.30	+	3C
38	2	C	6.04	+	2C
39	1	C	2.63	+	1C
40		F	17.01	+	F
41	3	R	1.84	+	3R
42	2	R	1.63	+	2R
43	3	R	1.72	+	3R
44	3	C	3.63	+	3C
45	1	C	2.05	+	1C

Jim's mistake

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

1R + 1.77
3R + 1.81
3C + 6.77
1R + 1.78
2C + 6.28
2C + 6.13
F + 17.81
2R + 1.62
1C + 3.15
(delayed start) F + 14.89

MONITOR TALLY SHEET

DATE 12-4 SHIFT 2 STATION Tower

OBSERVER el Henry MONITOR RMA

8:00

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	11.36	?	?
2	3	R	1.62	3R	+
3	1	R	2.05	1R	+
4	1	C	2.52	1C	+
5		F	—	F	+
6	2	C	7.45	2C	+
7	2	C	6.54	2C	+
8	3	R	1.84	3R	+
9		F	—	F	+
10		F	—	F	+
11	2	R	1.51	2R	+
12		F	—	F	+
13		F	—	F	+
14	2	C	5.64	2C	+
15	1	R	1.43	1R	+
16	2	R	1.68	2R	+
17	3	C	3.92	3C	+
18	1	R	1.48	1R	+
19	3	C	4.08	3C	+
20	1	R	1.55	1R	+
21		F	—	F	+
22		F	—	F	+
23	3	C	9.47	3C	+
24		F	—	F	+
25		F	—	F	+
26	1	C	3.43	1C	+
27	1	C	3.47	1C	+
28		F	—	F	+
29		F	—	F	+
30	3	R	1.68	3R	+
31	2	C	6.03	2C	+
32		F	—	F	+
33	2	R	1.76	2R	+
34		F	—	F	+
35	2	R	1.44	2R	+
36	1	R	2.07	1R	+
37	3	C	4.85	3C	+
38	2	C	6.50	2C	+
39	1	C	2.08	1C	+
40		F	—	F	+
41	3	R	1.68	3R	+
42	2	R	1.60	2R	+
43	3	R	1.67	3R	+
44	3	C	3.89	3C	+
45	1	C	1.99	1C	+

start

H - Houston by mistake

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

Trial

1R	1.73	1R +
3R	1.84	3R +
3C	5.25	2C
1R	1.64	1R +
2C	4.51	2C +
2C	5.95	2C +
F	—	F +
2R	1.86	2R +
1C	4.08	1C +
F	—	F +

thought it was 2 C, could not differentiate between 2 & 3

INTRUSION SCHEDULE

DATE 6-4 SHIFT 3 SUPERVISOR RMA

TEST CONFIGURATION: Reflectors/spots 9:15

#	RANGE	TYPE	INTRUDER
1		F	✓
2		F	✓
3	1	R	✓ F
4	2	C	✓ S
5	3	C	✓ G
6		F	✓
7		F	✓
8	1	R	✓ S
9		F	✓
10	3	C	✓ G
11	1	C	✓ J
12		F	✓
13	2	R	✓ G
14		F	✓
15	1	R	✓ J
16		F	✓
17	3	R	✓ G
18	3	C	✓ G
19		F	✓
20	3	R	✓ G
21	2	C	✓ J
22	2	C	✓ G
23		F	✓
24		F	✓
25	2	C	✓ J
26		F	✓
27	2	R	✓ G
28	2	R	✓ J
29	3	C	✓ G
30	1	R	✓ J
31	2	R	✓ J
32	3	R	✓ J
33	3	C	✓ J
34	3	R	✓ J
35	1	C	✓ G
36		F	✓
37	1	C	✓ G
38		F	✓
39		F	✓
40	1	C	✓ J
41	2	C	✓ G
42	1	R	✓ J
43	1	C	✓ J
44	2	R	✓ G
45	3	R	✓ J

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/4/81 SHIFT 3 STATION TV

OBSERVER Ale Henry MONITOR RCS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	12.94	F	
2		F	15.90	F	
3	1	R	1.49	1R	
4	2	C	4.68	2C	
5	3	C	2.78	3C	
6		F	16.88	F	
7		F	16.73	F	
8	1	R	2.23	1R	
9		F	14.6	F	
10	3	C	3.61	3C	
11	1	C	2.59	1C	
12		F	29.94	F	
13	2	R	2.08	2C	
14		F	13.18	F	
15	1	R	2.11	1R	
16		F	16.71	F	
17	3	R	1.59	3R	
18	3	C	3.71	3C	
19		F	16.15	F	
20	3	R	1.38	3R	
21	2	C	4.67	2C	
22	2	C	4.86	2C	
23		F	18.99	F	
24		F	20.97	F	
25	2	C	4.03	2C	
26		F	17.08	F	
27	2	R	1.85	2R	
28	2	R	1.99	2R	
29	3	C	3.25	3C	
30	1	R	2.02	1R	
31	2	R	1.67	2R	
[illegible]	3	R	1.53	3R	
[illegible]	3	C	4.29	3C	
34	3	R	1.72	3R	
35	1	C	4.79	1C	
36		F	16.14	F	
[illegible]	1	C	4.45	1C	
2114		F	38.59	F	
39		F	16.11	F	
40	1	C	3.—	1C	
41	2	C	6.52	2C	
42	1	R	1.99	1R	
43	1	C	0.35	1C	
44	2	R	1.82	2R	
45	3	R	.88	3R	

Start 2114
Finish 2143

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 1/4/84 SHIFT 3 STATION Tower

OBSERVER Paul MONITOR Tom

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F		+	F
2		F	8.16	−	3C
3	1	R	1.64	+	1R
4	2	C	8.78	+	2C
5	3	C	4.63	−	2C
6		F		+	F
7		F		+	F
8	1	R	2.32	+	1R
9		F	0.37	−	(*)
10	3	C	7.37	−	2C
11	1	C	3.30	+	1C
12		F		+	F
13	2	R	2.01	+	2R
14		F		+	F
15	1	R	1.97	+	1R
16		F		+	F
17	3	R	1.91	+	3R
18	3	C	5.66	+	3C
19		F		+	F
20	3	R	1.70	+	3R
21	2	C	6.68	+	2C
22	2	C	8.85	+	2C
23		F		+	F
24		F		+	F
25	2	C	6.67	+	2C
26		F		+	F
27	2	R	1.87	+	2R
28	2	R	1.97	+	2R
29	3	C	5.67	+	3C
30	1	R	2.17	+	1R
31	2	R	1.69	+	2R
32	3	R	1.66	+	3R
33	3	C	8.53	+	3C
34	3	R	1.83	+	3R
35	1	C	5.65	+	1C
36		F		+	F
37	1	C	5.71	+	1C
38		F		+	F
39		F		+	F
40	1	C	3.60	+	1C
41	2	C	9.31	+	2C
42	1	R	2.00	+	1R
43	1	C	4.13	+	1C
44	2	R	1.93	+	2R
45	3	R	1.90	+	3R

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES (*) = accidently hit button.

Lamp Slight Delay

INTRUSION SCHEDULE

DATE 12-4 SHIFT 4 SUPERVISOR Tom

TEST CONFIGURATION: SPOTS/RETRO REFLECTORS

#	RANGE	TYPE	INTRUDER	
1		F	✓	
2		F	✓	
3	1	R	✓	J
4	1	C	✓	J
5	3	R	✓	G
6	2	C	✓	J
7		F	✓	
8	2	R	✓	G
9	2	C	✓	J
10	3	C	✓	G
11	2	R	✓	J
12	1	R	✓	G
13		F	✓	
14		F	✓	
15	3	R	✓	J
16		F	✓	
17		F	✓	
18	3	C	✓	J
19		F	✓	
20		F	✓	
21	3	R	✓	J
22	3	C	✓	G
23	2	R	✓	J
24	1	C	✓	J
25	1	R	✓	J
26		F	✓	
27	2	C	✓	G
28	1	R	✓	J
29	2	C	✓	G
30	1	C	✓	J
31	3	C	✓	G
32	1	C	✓	J
33	1	R	✓	J
34	3	C	✓	G
35		F	✓	
36	2	C	✓	J
37		F	✓	
38	2	R	✓	G
39	1	C	✓	J
40	3	R	✓	G
41	3	R	✓	G
42		F	✓	
43		F	✓	
44	3	R	✓	G
45		F	✓	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 1/4/81 SHIFT 4 STATION Tower

OBSERVER A. Hovey MONITOR RCS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F		F	
2		F		F	
3	1	R	1.53	1R	
4	1	C	2.20	1C	
5	3	R	1.17	3R	
6	2	C	4.40	2C	
7		F		F	
8	2	R	1.25	2R	
9	2	C	3.77	2C	
10	3	C	3.07	3C	
11	2	R	1.35	2R	
12	1	R	2.41	1R	
13		F		F	
14		F		F	
15	3	R	1.22	3R	
16		F		F	
17		F		F	
18	3	C	7.58	3C	
19		F		F	
20		F		F	
21	2	R	1.88	2R	
22	3	C	3.37	3C	
23	2	R	1.46	2R	
24	1	C	3.05	1C	
25	1	R	1.54	1R	
26		F		F	
27	2	C	7.50	2C	
28	1	R	1.55	1R	
29	2	C	5.98	2C	
30	1	C	2.09	1C	
31	3	C	2.50	3C	
32	1	C	2.30	1C	
33	1	R	0.90	1R	
34	3	C	2.90	3C	
35		F		F	
36	2	C	4.62	2C	
37		F		F	
38	2	R	1.28	2R	
39	1	C	1.04	1C	
40	3	R	0.90	3R	
41	3	R	1.85	3R	
42		F		F	
43		F		F	
44	3	R	1.14	3R	
45		F		F	

2209

Start 2209
finish 2240

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/4/81 SHIFT 4 STATION CCTV

OBSERVER Paul MONITOR DC

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	15.40		+
2		F	12.64		+
3	1	R	1.44		+
4	1	C	2.25		+
5	3	R	1.21		+
6	2	C	4.48		+
7		F	10.24		+
8	2	R	1.60		+
9	2	C	3.46		+
10	3	C	3.20		+
11	2	R	1.44		+
12	1	R	2.37		+
13		F	9.45		+
14		F	11.49		+
15	3	R	1.21		+
16		F	9.85		+
17		F	10.52		+
18	3	C	5.46		+
19		F	15.79		+
20		F	13.68		+
21	2	R	1.96		+
22	3	C	3.21		+
23	2	R	1.57		+
24	1	C	2.99		+
25	1	R	1.29		+
26		F	23.161		+
27	2	C	7.11		+
28	1	R	1.63		+
29	2	C	6.31		+
30	1	C	2.49		+
31	3	C	3.50		+
32	1	C	2.35		+
33	1	R	0.84		+
34	3	C	4.96		+
35		E	14.32		+
36	2	C	4.79		+
37		F	10.74		+
38	2	R	1.40		+
39	1	C	1.16		+
40	3	R	1.16		+
41	3	R	1.84		+
42		E	11.30		+
43		F	13.94		+
44	3	R	1.30		+
45		F	9.85		+

Start

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12/7/81 SHIFT 1 SUPERVISOR Jon

TEST CONFIGURATION: Reflectors/Spots

#	RANGE	TYPE	INTRUDER	
1	2	R	✓	
2	3	C	✓	
3	3	R	✓	
4	2	R	✓	
5	3	R	✓	
6		F		
7	1	C		
8	2	C		
9		F		
10	3	R		
11	1	C		
12		F		
13	2	R		
14	3	C		
15		F		
16	1	R		
17		F		
18	1	R		
19	1	R		
20		F	✓	
21	2	C	✓	GJ
22	3	C	✓	
23		F	✓	
24		F	✓	
25		F	✓	
26	2	C	✓	
27		F	✓	
28	2	C	✓	
29	1	C	✓	
30	3	C	✓	
31	3	R	✓	
32	2	C	✓	
33	2	R	✓	
34		F	✓	
35		F	✓	
36		F	✓	
37	1	R	✓	
38	1	R	✓	
39	1	C	✓	
40	2	R	✓	
41		F	✓	
42		F	✓	
43	1	C	✓	
44	3	R	✓	
45	3	C	✓	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

3R ✓
F ✓
1R ✓
2C ✓
2C ✓
F ✓
GJ R ✓
1C ✓
3C ✓
2R

Drizzling

MONITOR TALLY SHEET

DATE 12-7-81 SHIFT 1 STATION TV

OBSERVER P Clementsia MONITOR Scott

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	1.29	2R	
2	3	C	don't count		
3	3	R	1.34	3R	
4	2	R	1.17	2R	
5	3	R	1.39	3R	
6		F	12.39	F	
7	1	C	4.12	1C	
8	2	C	5.67	2C	
9		F	10.62	F	
10	3	R	1.41	3R	
11	1	C	6.17	1C	
12		F	11.43	F	
13	2	R	1.14	2R	
14	3	C	7.49	3C	
15		F	10.62	F	
16	1	R	1.38	1R	
17		F	10.72	F	
18	1	R	1.28	1R	
19	1	R	1.43	1R	
20		F	14.36	F	
21	2	C	5.83	2C	
22	3	C	7.19	3C	
23		F	14.04	F	
24		F	17.30	F	
25		F	17.76	F	
26	2	C	6.03	2C	
27		F	14.73	F	
28	2	C	5.23	2C	
29	1	C	5.72	1C	
30	3	C	4.77	3C	
31	3	R	1.59	3R	
32	2	C	4.10	2C	
33	2	R	1.44	2R	
34		F	11.58	F	
35		F	13.44	F	
36		F	13.18	F	
37	1	R	1.53	1R	
38	1	R	1.26	1R	
39	1	C	6.53	1C	
40	2	R	1.30	2R	
41		F	15.52	F	
42		F	16.37	F	
43	1	C	4.22	1C	
44	3	R	1.36	3R	
45	3	C	5.07	3C	

Start 1758
finish ~1830

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

3R + 1.59
F + 12,32
1R + 1.51
2C + 7.17
2C + 4,29
F + 12,25
1R + 1.31
1C + 6.64
3C + 6.43
2R + 1.23

Ben Barker visited the site @ 1800

MONITOR TALLY SHEET

DATE 12-7-81 SHIFT 1 STATION Tower

OBSERVER Ed Henry MONITOR RmA

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	1.11	2R	+
2	3	C	4.37	3C	+
3	3	R	1.29	3R	+
4	2	R	1.40	2R	+
5	3	R	1.42	3R	+
6		F	—	F	+
7	1	C	3.95	1C	+
8	2	C	6.03	2C	+
9		F	—	F	+
10	3	R	1.37	3R	+
11	1	C	7.40	1C	+
12		F	—	F	+
13	2	R	1.24	2R	+
14	3	C	8.77	3C	+
15		F	—	F	+
16	1	R	1.44	1R	+
17		F	—	F	+
18	1	R	1.37	1R	+
19	1	R	1.48	1R	+
20		F	—	F	+
21	2	C	5.80	2C	+
22	3	C	5.0	3C	+
23		F	—	F	+
24		F	—	F	+
25		F	—	F	+
26	2	C	5.46	2C	+
27		F	—	F	+
28	2	C	5.41	2C	+
29	1	C	6.45	1C	+
30	3	C	4.92	3C	+
31	3	R	1.20	3R	+
32	2	C	4.59	2C	+
33	2	R	1.25	2R	+
34		F	—	F	+
35		F	—	F	+
36		F	—	F	+
37	1	R	1.55	1R	+
38	1	R	1.29	1R	+
39	1	C	7.21	1C	+
40	2	R	1.17	2R	+
41		F	—	F	+
42		F	—	F	+
43	1	C	6.24	1C	+
44	3	R	1.26	3R	+
45	3	C	4.97	3C	+

Hunts

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

3R 1.48 + 3R
F — F +
1R 1.41 1R +
2C 7.41 2C +
2C 4.50 2C +
F — F +
1R 1.28 1R +
1C 7.89 1C +
3C 4.50 3C +
2R 1.25 2R +

INTRUSION SCHEDULE

DATE 12/7/81 SHIFT 2 SUPERVISOR PCS

TEST CONFIGURATION: Reflectors/spots

#	RANGE	TYPE	INTRUDER
1		F	
2		F	
3	1	R	G
4		F	
5		F	
6	1	R	
7	2	C	
8	3	R	
9	1	C	
10	2	R	
11		F	
12		F	
13	1	R	
14		F	
15		F	
16		F	
17		F	
18	3	R	V
19	1	C	
20		F	
21	3	C	
22	2	C	
23	3	R	
24	1	C	
25		F	
26	2	R	
27	2	R	
28	3	C	
29		F	
30	3	C	
31	2	R	V
32	1	C	
33	2	C	
34	2	R	
35	2	C	
36		F	
37	1	R	
38	3	R	
39		F	
40	2	C	G
41	3	C	
42	3	R	
43	1	C	V
44	3	C	
45	1	R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

21.4
15.8
21.5

NOTES

F
R
C
C
F
R
C
C
R
R

MONITOR TALLY SHEET

DATE 12/7/81 SHIFT 2 STATION Tower

OBSERVER Dave MONITOR Jan

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F		+	F
2		F		+	F
3	1	R	1.72	+	1R
4		F		+	F
5		F		+	F
6	1	R	2.07	+	1R
7	2	C	6.79	+	2C
8	3	R	1.67	+	3R
9	1	C	4.63	+	1C
10	2	R	1.37	+	2R
11		F		+	F
12		F		+	F
13	1	R	1.89	+	1R
14		F		+	F
15		F		+	F
16		F		+	F
17		F		+	F
18	3	R	1.68	+	3R
19	1	C	6.47	+	1C
20		F		+	F
21	3	C	6.42	+	3C
22	2	C	8.57	+	2C
23	3	R	1.57	+	3R
24	1	C	6.31	+	1C
25		F		+	F
26	2	R	1.48	+	2R
27	2	R	1.55	+	2R
28	3	C	6.18	+	3C
29		F		+	F
30	3	C	6.71	+	3C
31	2	R	1.33	+	2R
32	1	C	6.81	+	1C
33	2	C	5.08	+	2C
34	2	R	1.61	+	2R
35	2	C	4.22	+	2C
36		F		+	F
37	1	R	1.68	+	1R
38	3	R	1.68	+	3R
39		F		+	F
40	2	C	10.24	+	2C
41	3	C	6.37	+	3C
42	3	R	1.82	+	3R
43	1	C	6.65	+	1C
44	3	C	9.83	+	3C
45	1	R	1.72	+	1R

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

F +
1R + 1.91
2C + 7.78
2C + 10.17 Late Start
F +
1R + 1.87
1C + 11.77
3C + 6.97
2R + 1.46
3R + 1.91

MONITOR TALLY SHEET

DATE 12-7-81 SHIFT 2 STATION CCTV

OBSERVER el Henry MONITOR Rm A

start 7:45
end 8:32

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	26.95	F	+
2		F	16.65	F	+
3	1	R	1.76	1R	+
4		F	12.79	F	+
5		F	25.34	F	+
6	1	R	1.98	1R	+
7	2	C	6.07	2C	+
8	3	R	1.48	3R	+
9	1	C	5.08	1C	+
10	2	R	1.29	2R	+
11		F	9.13	F	+
12		F	14.02	F	+
13	1	R	1.78	1R	+
14		F	9.70	F	+
15		F	12.38	F	+
16		F	13.49	F	+
17		F			
18	3	R	1.91	3R	+
19	1	C	5.64	1C	+
20		F	12.63	F	+
21	3	C	16.06	3C	+
22	2	C	7.03	2C	+
23	3	R	1.57	3R	+
24	1	C	6.07	1C	+
25		F	12.23	F	+
26	2	R	1.25	2R	+
27	2	R	1.59	2R	+
28	3	C	4.63	3C	+
29		F	16.23	F	+
30	3	C	5.45	3C	+
31	2	R	1.34	2R	+
32	1	C	6.37	1C	+
33	2	C	4.14	2C	+
34	2	R	1.65	2R	+
35	2	C	3.66	2C	+
36		F	15.53	F	+
37	1	R	1.69	1R	+
38	3	R	1.54	3R	+
39		F	13.31	F	+
40	2	C	8.56	2C	+
41	3	C	3.79	3C	+
42	3	R	1.75	3R	+
43	1	C	5.12	1C	+
44	3	C	4.79	3C	+
45	1	R	1.59	1R	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

F 33.37 F +
1R 35.11 1R +
2C 4.66 2C +
2C 7.54 2C +
F 10.86 F +
1R 1.79 1R +
1C 9.50 1C +
3C 4.41 3C +
2R 1.42 2R +
3R 1.94 3R +

INTRUSION SCHEDULE

DATE 12/7/81 SHIFT 3 SUPERVISOR RmA

TEST CONFIGURATION: Reflectors/spots

#	RANGE	TYPE	INTRUDER
1		F	✓
2	2	C	✓
3	1	C	✓
4	3	R	✓
5	1	R	✓
6		F	✓
7	1	C	✓
8	3	R	✓
9		F	✓
10		F	✓
11	1	C	✓
12	2	C	✓
13	3	C	✓
14	3	R	✓
15		F	✓
16	1	C	✓
17		F	✓
18		F	✓
19	1	C	✓
20	3	R	✓
21	1	R	✓
START → 22		F	✓
23		F	✓
24	1	R	✓
25		F	✓
26	1	R	✓
27	3	C	✓
28	2	R	✓
29		F	✓
30	3	C	✓
31	2	R	✓
32	2	R	✓
33		F	✓
34		F	✓
35	3	R	✓
36		F	✓
37	2	C	✓
38		F	✓
39	2	C	✓
40	3	C	✓
41	1	R	✓
42	2	R	✓
43	2	C	✓
44	2	R	✓
45	3	C	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-7-81 SHIFT 3 STATION Tower

OBSERVER E. Henry MONITOR RRS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F		F	
2	2	C	8.89	2C	
3	1	C	4.65	1C	
4	3	R	1.86	3R	
5	1	R	2.02	1R	
6		F		F	
7	1	C	10.34	1C	
8	3	R	1.70	3R	
9		F		F	
10		F		F	
11	1	C	7.89	1C	
12	2	C	3.81	2C	
13	3	C	5.56	3C	
14	3	R	1.74	3R	
15		F		F	
16	1	C	7.50	1C	
17		F		F	
18		F		F	
19	1	C	3.95	1C	
20	3	R	2.02	3R	
21	1	R	2.13	1R	
22		F		F	
23		F		F	
24	1	R	2.01	1R	
25		F		F	
26	1	R	[illegible]	1R	
27	3	C	8.10	3C	
28	2	R	1.38	2R	
29		F		F	
30	3	C	9.64	3C	
31	2	R	1.42	2R	
32	2	R	1.73	2R	
33		F		F	
34		F		F	
35	3	R	1.46	3R	
36		F		F	
37	2	C	8.57	2C	
38		F		F	
39	2	C	5.11	2C	
40	3	C	4.83	3C	
41	1	R	2.24	1R	
42	2	R	1.57	2R	
43	2	C	3.44	2C	
44	2	R	1.43	2R	
45	3	C	6.22	3C	

1958

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-1-81 SHIFT 3 STATION CCTV

OBSERVER Paul MONITOR Bob Bernard

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	15.95	F	+
2	2	C	8.36	C2	+
3	1	C	4.63	C1	+
4	3	R	1.75	R3	+
5	1	R	1.86	R1	+
6		F	16.63	F	+
7	1	C	9.23	C1	+
8	3	R	1.70	R3	+
9		F	16.63	F	+
10		F	15.94	F	+
11	1	C	7.90	C1	+
12	2	C	3.40	C2	+
13	3	C	5.35	C3	+
14	3	R	1.75	R3	+
15		F	14.03	F	+
16	1	C	7.46	C1	+
17		F	19.89	F	+
18		F	18.68	F	+
19	1	C	4.46	C1	+
20	3	R	1.89	R3	+
21	1	R	2.14	R1	+
22		F	13.65	F	+
23		F	11.24	F	+
24	1	R	1.98	R1	+
25		F	4.49	F	+
26	1	R	[illegible]	R1	+
27	3	C	5.40	C3	+
28	2	R	1.42	R2	+
29		F	11.60	F	+
30	3	C	[illegible]	C3	+
31	2	R	1.46	R2	+
32	2	R	1.79	R2	+
33		F	[illegible]	F	+
34		F	[illegible]	F	+
35	3	R	1.53	R3	+
36		F	[illegible]	F	+
37	2	C	[illegible]	C2	+
38		F	[illegible]	F	+
39	2	C	[illegible]	C2	+
40	3	C	[illegible]	C3	+
41	1	R	[illegible]	R1	+
42	2	R	[illegible]	R2	+
43	2	C	[illegible]	C2	+
44	2	R	[illegible]	R2	+
45	3	C	[illegible]	C3	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

1.66 repeated

INTRUSION SCHEDULE

DATE 12/7/81 SHIFT 4 SUPERVISOR [illegible]

TEST CONFIGURATION: Reflectors/Spots

#	RANGE	TYPE	INTRUDER
1	1	C	✓
2	3	C	✓
3		F	✓
4	1	R	✓
5	1	R	✓
6		F	✓
7	3	C	✓
8	1	R	✓
9		F	✓
10	3	R	✓
11		F	✓
12		F	✓
13	2	C	✓
14		F	✓
15	2	R	✓
16		F	✓
17		F	✓
18	3	R	✓
19	3	C	✓
20	3	R	✓
21	2	R	✓
22	1	R	✓
23	2	C	✓
24	2	R	✓
25	3	R	✓
26	3	C	✓
27	3	R	✓
28	2	C	✓
29	2	C	✓
30		F	✓
31		F	✓
32		F	✓
33	2	R	✓
34	1	R	✓
35		F	✓
36	1	C	✓
37		F	✓
38	1	C	✓
39		F	✓
40	1	C	✓
41	3	C	✓
42	3	R	✓
43	2	C	✓
44		F	✓
45	1	C	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-7-81 SHIFT 4 STATION Tower

OBSERVER Paul MONITOR Rmft

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	C	5.17	1C	+
2	3	C	9.64	3C	+
3		F	—	F	+
4	1	R	1.29	1R	+
5	1	R	1.66	1R	+
6		F	—	F	+
7	3	C	7.78	3C	+
8	1	R	1.68	1R	+
9		F	—	F	+
10	3	R	0.81	3R	+
11		F	—	F	+
12		F	—	F	+
13	2	C	3.33	2C	+
14		F	—	F	+
15	2	R	1.18	2R	+
16		F	—	F	+
17		F	—	F	+
18	3	R	1.36	3R	+
19	3	C	6.19	3C	+
20	3	R	1.60	3R	+
21	2	R	1.20	2R	+
22	1	R	1.78	1R	+
23	2	C	7.75	2C	+
24	2	R	1.10	2R	+
25	3	R	1.27	3R	+
26	3	C	7.10	3C	+
27	2	R	1.55	2R	+
28	2	C	5.58	2C	+
29	2	C	7.96	2C	+
30		F	—	F	+
31		F	—	F	+
32		F	—	F	+
33	2	R	1.11	2R	+
34	1	R	1.48	1R	+
35		F	—	F	+
36	1	C	9.35	1C	+
37		F	—	F	+
38	1	C	7.35	1C	+
39		F	—	F	+
40	1	C	3.39	1C	+
41	3	C	4.21	3C	+
42	3	R	1.27	3R	+
43	2	C	7.46	2C	+
44		F	—	F	+
45	1	C	4.40	1C	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

Start →

MONITOR TALLY SHEET

DATE 12/1/81 SHIFT 4 STATION TV

OBSERVER E Henry MONITOR TRS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	C	5.35	1C	
2	3	C	2.15	3C	
3		F	17.00	F	
4	1	R	1.42	1R	
5	1	R	1.72	1R	
6		F	18.82	F	
7	3	C	4.45	3C	
8	1	R	1.66	1R	
9		F	19.35	F	
10	3	R	0.78	3R	
11		F	20.89	F	
12		F	22.12	F	
13	2	C	2.72	2C	
14		F	16.99	F	
15	2	R	1.63	2R	
16		F	11.45	F	
17		F	16.49	F	
18	3	R	1.63	3R	
19	3	C	5.17	3C	
20	3	R	1.53	3R	
21	2	R	1.22	2R	
22	1	R	1.74	1R	
23	2	C	7.48	2C	
24	2	R	1.27	2R	
25	3	R	1.07	3R	
26	3	C	2.68	3C	
27	2	R	1.41	2R	
28	2	C	3.05	2C	
29	2	C	6.40	2C	
30		F	18.83	F	
31		F	17.99	F	
32		F	15.62	F	
33	2	R	1.22	2R	
34	1	R	1.40	1R	
35		F	39.67	F	
36	1	C	4.66	1C	
37		F	19.46	F	
38	1	C	5.81	1C	
39		F	22.76	F	
40	1	C	3.37	1C	
41	3	C	2.73	3C	
42	3	R	1.25	3R	
43	2	C	7.69	2C	
44		F	18.18	F	
45	1	C	3.02	1C	

Finish 2112

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12/8 SHIFT 1 SUPERVISOR RCS

TEST CONFIGURATION: HPS/Grass Cont 6 Rm A

#	RANGE	TYPE	INTRUDER
1	1	C	✓
2	1	R	✓
3		F	✓
4	2	R	✓
5	2	R	✓
6		F	✓
7	3	C	✓
8		F	✓
9	3	R	✓
10	3	R	✓
11	3	R	✓
12	2	C	✓
13	1	C	✓
14	1	R	✓
15	1	R	✓
16	3	C	✓
17	2	R	✓
18		F	✓
19	3	C	✓
20	3	R	✓
21	2	C	✓
22	1	C	✓
23	2	C	✓
24	3	C	✓
25		F	✓
26		F	✓
27	3	C	✓
28		F	✓
29	3	R	✓
30	2	C	✓
31		F	✓
32	1	R	✓
33		F	✓
34	2	C	✓
35	2	R	✓
36		F	
37		F	
38	1	C	✓
39	1	R	✓
40		F	✓
41		F	✓
42	2	R	✓
43		F	✓
44		F	
45	1	C	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
G1R
2R
F
3R
1R
2R
3R
1C
F
2C

C

G

—int

MONITOR TALLY SHEET

DATE 12-8-81 SHIFT 1 STATION CCTV

EC tower Tom

OBSERVER EC MONITOR Tom

HPS GRASS

Start 18:14
End 18:56

	#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
+3.57	1	1	C	1.37	+	1C
+1.74	2	1	R	0.98	+	1R
+	3		F	18.02	+	F
+1.44	4	2	R	0.95	+	2R
+1.43	5	2	R	0.64	+	2R
+	6		F	16.19	+	F
——	7	3	C	2.93	+	3C
+	8		F	16.04	+	F
+1.86	9	3	R	1.32	+	3R
+2.67	10	3	R	1.54	+	3R
+2.19	11	3	R	1.17	+	3R
+5.06	12	2	C	1.95	+	2C
+4.56	13	1	C	2.23	+	1C
+2.33	14	1	R	1.28	+	1R
+1.74	15	1	R	1.28	+	1R
+7.82	16	3	C	2.42	+	3C
+1.47	17	2	R	1.16	+	2R
+	18		F	——	--	——
+9.52	19	3	C	2.56	+	3C
+1.70	20	3	R	1.09	+	3R
+4.13	21	2	C	1.65	+	2C
+7.79	22	1	C	2.12	+	1C
+3.07	23	2	C	1.80	+	2C
+4.89	24	3	C	3.68	+	3C
+	25		F	11.03	+	F
+	26		F	12.48	+	F
+6.71	27	3	C	3.29	+	3C
+	28		F	15.76	+	F
+2.26	29	3	R	1.22	+	3R
+4.40	30	2	C	2.11	+	2C
+ ✓	31		F	21.88	+	F
+1.83	32	1	R	1.05	+	1R
+	33		F	16.56	+	F
+4.56	34	2	C	2.38	+	2C
+1.81	35	2	R	1.12	+	2R
+	36		F	17.26	+	F
+	37		F	17.46	+	F
+7.65	38	1	C	1.78	+	1C
+2.45	39	1	R	1.27	+	1R
+	40		F	15.94	+	F
+	41		F	14.20	+	F
+1.69	42	2	R	1.18	+	2R
+	43		F	16.45	+	F
+	44		F	19.26	+	F
+3.49	45	1	C	1.24	+	1C

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

1R + 1.23
2R + 1.36
F + 15.25
3R + 1.02
1R + 1.33
2R + 1.08
3R + 1.43
No False Alarms
1C + 2.43
F + 22.11
2C + 1.77

MONITOR TALLY SHEET

DATE 12/8/81 SHIFT 1 STATION Tower 6:07

OBSERVER Paul MONITOR RMA

Shift 6

HPS - Grass

	#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1.65 1C	1	1	C	—	F	O
1.21 1R	2	1	R	2.93	1R	+
8.20 F	3	—	F	—	F	+
1.14 2R	4	2	R	1.77	2R	+
.98 2R	5	2	R	1.42	2R	+
7.11 F	6	—	F	24.33	2C	O
2.97 3C	7	3	C	—	F	O
10.12 F	8	—	F	—	F	+
1.34 3R	9	3	R	2.26	3R	+
1.78 3R	10	3	R	2.93	3R	+
1.62 3R	11	3	R	—	F	O
2.94 2C	12	2	C	7.98	1C	O
1.67 1C	13	1	C	—	F	O
1.18 1R	14	1	R	2.62	1R	+
1.15 1R	15	1	R	2.15	1R	+
2.76 3C	16	3	C	21.61	1C	O
.94 2R	17	2	R	1.74	2R	+
7.69 F	18	—	F	—	F	+
4.41 3C	19	3	C	—	F	O
1.24 3R	20	3	R	27.69	1C	O
1.78 2C	21	2	C	10.37	2C	+
2.24 1C	22	1	C	17.68	1C	+
2.00 2C	23	2	C	9.48	3C	O
2.71 3C	24	3	C	—	F	O
7.96 F	25	—	F	~~27.50~~	~~1C~~ F	O
9.18 F	26	—	F	27.50	~~F~~ 1C	O
8.33 3C	27	3	C	—	F	O
8.43 F	28	—	F	—	F	+
1.12 3R	29	3	R	~~9.26~~	~~2C~~ F	~~O~~ + O
2.61 2C	30	2	C	9.26	2C	+
F [illegible]	31	3	F	—	F	+
1.22 1R	32	1	R	2.15	1R	+
7.01 F	33	—	F	—	F	+
1.73 2C	34	2	C	9.33	2C	+
1.17 2R	35	2	R	1.55	3R	O
8.85 F	36	—	F	—	F	+
11.81 F	37	—	F	—	F	+
1.79 1C	38	1	C	12.13	1C	+
1.17 1R	39	1	R	2.53	1R	+
9.62 F	40	—	F	19.29	1C	O
9.00 F	41	—	F	—	F	+
1.43 2R	42	2	R	1.68	2R	+
8.04 F	43	—	F	—	F	+
11.25 F	44	—	F	26.06	3C	O
1.98 1C	45	1	C	3.25	3R	O

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
1R - 2.75 - 1R - +
2R - 1.78 - 2R - +
F - — F - +
3R - 2.31 - 3R - +
1R - 2.55 - 2R - O
2R - 1.82 - 2R - +
3R - 2.44 - 3R - +
1C - — F - O
F - — F - +
2C - — — O

move down 1#

Shift 6, P Clementin on TV, turn away between trials

INTRUSION SCHEDULE

DATE 12/8 SHIFT 2 SUPERVISOR TWB

TEST CONFIGURATION: Grass/HPS

#	RANGE	TYPE	INTRUDER
1	1	R	✓
2		F	✓
3	3	R	✓
4	2	C	✓
5	2	R	✓
6		F	✓
7	1	R	✓
8		F	✓
9	1	R	✓
10	2	C	✓
11	3	R	✓
12	3	R	✓
13	1	R	✓
14		F	✓
15	2	C	✓
16		F	✓
17		F	✓
18	2	R	✓
19	2	C	✓
20	2	R	✓
21		F	✓
22	1	C	✓
23		F	✓
24		F	✓
25	1	R	✓
26	3	C	✓
27	3	C	✓
28	2	R	✓
29		F	✓
30	3	R	✓
31	2	C	✓
32	1	C	✓
33		F	✓
34		F	✓
35	1	C	✓
36	1	C	✓
37		F	✓
38	3	C	✓
39		F	✓
40		F	✓
41	3	R	✓
42	3	C	✓
43	1	C	✓
44	3	R	✓
45	3	C	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
3C ✓
2R ✓
2C ✓
3R ✓
F ✓
1R ✓
2C ✓
F ✓
1R ✓
1C ✓

MONITOR TALLY SHEET

HPS 250 on 4 hours

DATE 12-8-81 SHIFT 2 STATION Tower

OBSERVER [illegible] Henry MONITOR DCS

shift 5 CCTV, shift 17, 320, 2213

HPS GRASS

Start 923
Finish 1953

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	R	1.57	1R	1.30 1R +
2		F		F	6.74 F +
3	3	R	0.96	3R	1.56 3R +
4	2	C	2.94	2C	2.65 2C +
5	2	R	1.27	2R	1.60 2R +
6		F		F	9.25 F +
7	1	R	1.49	1R	1.64 1R +
8		F		F	9.03 F +
9	1	R	2.34	1R	1.90 1R +
10	2	C	2.48	2C	3.74 2C +
11	3	R	1.33	3R	1.52 3R +
12	3	R	1.51	3R	1.69 3R +
13	1	R	1.41	1R	2.16 1R +
14		F		F	7.68 F +
15	2	C	4.60	2C	10.05 2C +
16		F		F	5.33 F +
1923 17		F		F	F 16.65 +
18	2	R	1.11	2R	2.79 2R +
19	2	C	5.03	2C	4.09 2C +
20	2	R	1.40	2R	2.10 2R +
21		F		F ~	30" F +
22	1	C	2.81	1C	1.66 1C +
23		F		F	12.83 F +
24		F		F	4.79 F +
25	1	R	1.60	1R	1.66 1R +
26	3	C	7.48	3C	5.55 3C +
27	3	C	3.31	3C	2.67 3C +
28	2	R	1.37	2R	1.56 2R +
29		F		F	5.71 F +
30	2	R	1.20	2R	1.38 2R +
31	2	C	4.07	2C	2.73 2C +
32	1	C	5.28	1C	6.77 1C +
33		F		F	9.79 F +
34		F		F	12.03 F +
35	1	C	3.59	1C	2.20 1C +
36	1	C	5.03	1C	2.79 1C +
37		F		F	9.09 F +
38	3	C	4.53	3C	4.52 3C +
39		F		F	10.35 F +
40		F		F	12.54 F +
41	3	R	1.21	3R	1.46 3R +
42	3	C	6.09	3C	3.92 3C +
43	1	C	6.55	1C	2.21 1C +
44	3	R	1.69	3R	1.91 3R +
45	3	C	5.10	3C	2.64 3C +

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
3C + 3.73
2R + 1.42
2C + 3.93
3R + 1.60 (the difference)
F +
1R + .96
2C + 3.60
F +
1R + 2.23
1C + 8.65

(at #28) shift 5

(at #32) stopped button early, probably add 2 seconds

MONITOR TALLY SHEET

DATE 12/8/81 SHIFT 2 STATION CCTV

OBSERVER Paul MONITOR RMA 19:23 19:53

(left margin)	#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
2.31 1R	1	1	R	1.12	1R	+
12.62 2C	2	–	F	8.94	F	+
—	3	3	R	0.76	3R	+
11.99 1C	4	2	C	1.55	2C	+
1.87 1R	5	2	R	1.24	2R	+
2.72 2R	6	–	F	8.47	F	+
2.76 1R	7	1	R	1.11	1R	+
14.04 2C	8	–	F	8.50	F	+
3.41 1R	9	1	R	2.05	1R	+
14.53 1C	10	2	C	2.09	2C	+
14.38 1C	11	3	R	1.23	3R	+
—	12	3	R	1.61	3R	+
2.63 1R	13	1	R	1.33	1R	+
13.64 2C	14	–	F	7.19	F	+
– 1C	15	2	C	1.52	2C	+
F	16	–	F	7.61	F	+
2C start →	17	–	F	~~[illegible]~~ 9.48	F	+
—	18	2	R	0.87	2R	+
6.06 3C	19	2	C	1.65	2C	+
1R —	20	2	R	1.27	2R	+
7.79 —	21	–	F	13.45	F	+
1C *	22	1	C	1.53	1C	+
23.26 2C	23		F	12.30	F	+
F +	24		F	11.57	F	+
2.34 1R	25	1	R	1.08	1R	+
—	26	3	C	4.35	3C	+
14.3 1C –	27	3	C	2.15	3C	+
1.49 1R –	28	2	R	1.02	2R	+
2.51 2R –	29	–	F	9.02	F	+
1.92 1R –	30	2	R	0.79	2R	+
8.47 1C –	31	2	C	1.95	2C	+
7.62 2C –	32	1	C	2.22	1C	+
11.3 2C –	33		F	10.10	F	+
21.69 2C –	34		F	11.02	F	+
21.28 1C	35	1	C	1.45	1C	+
4.01 2R	36	1	C	2.06	1C	+
15.96 1C	37		F	16.39	F	+
—	38	3	C	3.39	3C	+
F	39		F	10.56	F	+
2.43 1R	40		F	9.74	F	+
—	41	3	R	0.94	3R	+
14.7 1C	42	3	C	2.08	3C	+
3.5 2R	43	1	C	2.80	1C	+
?	44	3	R	1.51	3R	+
11.44 2C	45	3	C	1.70	3C	+

Paul talks about getting eye test, glasses

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
3C -5.45 - 3C - +
2R -1.09 - 2R - +
2C -2.65 - 2C - +
3R -1.54 - 3R - +
F - 10.84 - F - +
1R -0.73 - 1R - +
2C -1.30 - 2C - +
F - 11.81 - F - +
1R -1.71 - 1R - +
1C -1.66 - 1C - +

* no time

Note: Data in left margin is P. Clementine on the tower, turning away from the zone between trials. At 44 I discovered that #45 was to be run. Don't know where the error is. RCS.

INTRUSION SCHEDULE

DATE 12/8 SHIFT 3 SUPERVISOR FMA

TEST CONFIGURATION: WDS/Grass

#	RANGE	TYPE	INTRUDER
1		F	✓
2	1	R	✓
3		F	✓
4		F	✓
5	3	R	✓
6	1	C	✓
7		F	✓
8		F	✓
9	2	R	✓
10	2	R	✓
11	1	C	✓
12		F	✓
13	1	C	✓
14	3	C	✓
15	2	C	✓
16	3	R	✓
17		F	✓
18	2	C	✓
19	2	C	✓
20	2	C	✓
21	1	R	✓
22		F	✓
23		F	✓
24	3	R	✓
25	2	R	✓
26		F	✓
27	1	C	✓
28	3	R	✓
29	1	C	✓
30	3	R	✓
31	3	C	✓
32	2	C	✓
33	1	R	✓
34	1	R	✓
35		F	✓
36		F	✓
37	3	C	✓
38	3	C	✓
39	2	R	✓
40		F	✓
41	2	R	✓
42	2	C	✓
43		F	✓
44		F	✓
45	1	R	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-8-81 SHIFT 3 STATION Tower START 8:21 end

OBSERVER Paul MONITOR Tom

HPS GRASS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	4.04	—	2R
2	1	R	2.65	+	1R
3		F	1.97	—	2C
4		F		+	F
5	3	R	36.50	—	1C
6	1	C	——	—	—
7		F		+	F
8		F		+	F
9	2	R	1.58	—	1R
10	2	R	1.71	—	1R
11	1	C	9.45	+	1C
12		F	8.90	—	1C
13	1	C	19.76	—	2C (SU)
14	3	C	14.58	—	2C
15	2	C	——	—	—
16	3	R	——	—	—
17		F		+	F
18	2	C	11.89	+	2C
19	2	C	12.29	—	1C
20	3	C	——	—	—
21	1	R	2.46	+	1R
22		F	3.02	—	2R
23		F	13.93	—	1C
24	3	R	2.52	+	3R
25	2	R	1.78	+	2R
26		F		+	F
27	1	C	19.65	—	2C
28	3	R	3.70	+	3R
29	1	C	25.71	—	2C
30	3	R	16.97	—	2C
31	3	C	7.68	—	1C
32	2	C	10.60	+	2C
33	1	R	3.36	+	1R
34	1	R	2.58	+	1R
35		F	15.69	—	2C
36		F	13.66	—	1C
37	3	C	11.62	—	1C
38	3	C	16.27	—	2C
39	2	R	1.89	+	2R
40		F		+	F
41	2	R	1.62	+	2R
42	2	C	10.06	—	1C
43		F	9.93	—	2C
44		F		+	F
45	1	R	2.43	+	1R

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

Standing up at the fence

MONITOR TALLY SHEET

DATE 12/8/81 SHIFT 3 STATION TV

OBSERVER EJ Henry HPS-Grad MONITOR RCS

Start 2021
Finish 2054

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	–	F	19.96	F	
2	1	R	1.08	1R	
3	–	F	12.08	F	
4	–	F	14.81	F	
5	3	R	1.60	3R	
6	1	C	1.58	1C	
7	–	F	25.58	F	
8	–	F	15.10	F	
9	2	R	0.90	2R	
10	2	R	.73	2R	
11	1	C	1.45	1C	
12	–	F	14.53	F	
13	1	C	1.80	1C	
14	3	C	3.52	3C	
15	2	C	1.74	2C	
16	3	R	1.74	3R	
17	–	F	17.09	F	
18	2	C	3.04	2C	
19	2	C	1.73	2C	
20	3	C	2.87	3C	
21	1	R	1.09	1R	
22	–	F	15.64	F	
23	–	F	17.23	F	
24	3	R	1.41	3R	
25	2	R	1.35	2R	
26	–	F		F	
27	1	C	1.77	1C	
28	3	R	1.40	3R	
29	1	C	2.01	1C	
30	3	R	1.30	3R	
31	3	C	2.81	3C	
32	2	C	1.50	2C	
33	1	R	1.20	1R	
34	1	R	1.09	1R	
35	–	F	16.49	F	
36	–	F	11.40	F	
37	3	C	1.87	3C	
38	3	C	3.01	3C	
39	2	R	.98	2R	
40	–	F	23.04	F	
41	2	R	1.22	2R	
42	2	C	1.92	2C	
43	–	F	19.81	F	
44	–	F	19.78	F	
45	1	R	1.25	1R	

2021 →

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12/8 SHIFT 4 SUPERVISOR RCS

TEST CONFIGURATION: HPS / GRSS

#	RANGE	TYPE	INTRUDER
1		F	
2	3	C	
3	2	C	
4	2	R	
5	2	R	
6	3	C	
7	3	C	
8	3	R	
9		F	
10		F	
11		F	
12	1	R	
13		F	
14	2	C	
15		F	
16	3	C	
17	1	R	
18		F	
19	3	C	
20		F	
21	1	C	
22		F	
23	1	R	
24	3	R	
25		F	
26	2	R	
27	3	R	
28	3	R	
29	1	C	
30	2	R	
31	1	C	
32	1	R	
33	1	R	
34		F	
35	1	C	
36		F	
37	2	C	
38		F	
39	2	C	
40	3	R	
41		F	
42	1	C	
43		F	
44	2	C	
45	2	R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-8-81 SHIFT 4 STATION Tower

OBSERVER [illegible] Henry MONITOR RJMA

HPS Grass

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	–	F	+
2	3	C	9.82	3C	+
3	2	C	6.15	2C	+
4	2	R	1.54	2R	+
5	2	R	1.26	2R	+
6	3	C	6.46	3C	+
7	3	C	4.35	3C	+
8	3	R	1.65	3R	+
9		F	–	F	+
10		F	–	F	+
11	~~1~~	~~R~~	–	F	+
12	1	R	1.37	1R	+
13		F	–	F	+
14	2	C	6.14	2C	+
15		F	–	F	+
16	3	C	3.92	3C	+
17	1	R	1.74	1R	+
18		F	–	F	+
19	3	C	6.77	2C	+
20		F	–	F	+
21	1	C	3.31	1C	+
22		F	–	F	+
23	1	R	1.55	1R	+
24	3	R	1.81	3R	+
25		F	–	F	+
26	2	R	1.57	2R	+
27	3	R	1.81	3R	+
28	3	R	1.42	3R	+
29	1	C	4.14	1C	+
30	2	R	1.41	2R	+
31	1	C	4.43	1C	+
32	1	R	1.43	1R	+
33	1	R	1.64	1R	+
34		F	–	F	+
35	1	C	3.08	1C	+
36		F	–	F	+
37	2	C	4.24	2C	+
38		F	–	F	+
39	2	C	4.00	2C	+
40	3	R	1.78	3R	+
41		F	–	F	+
42	1	C	5.09	1C	+
43		F	–	F	+
44	2	C	8.14		
45	2	R	1.45	2R	+

[illegible] (beside row 25)

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/8/81 SHIFT 4 STATION CCTV

OBSERVER Paul MONITOR Tom

HPS - Grass

Very Windy

Start 9:17 PM

End

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	-	F	11.79	+	F
2	3	C	3.87	+	3C
3	2	C	3.29	+	2C
4	2	R	1.27	+	2R
5	2	R	1.07	+	2R
6	3	C	4.08	+	3C
7	3	C	3.41	+	3C
8	3	R	1.57	+	3R
9	-	F	12.22	+	F
10	-	F	9.54	+	F
11	-	F	10.61	+	F
12	1	R	0.92	+	1R
13	-	F	10.57	+	F
14	2	C	1.97	+	2C
15	-	F	10.46	+	F
16	3	C	1.33	+	3C
17	1	R	1.42	+	1R
18	-	F	7.37	+	F
19	3	C	2.34	+	3C
20	-	F	9.36	+	F
21	1	C	1.72	+	1C
22	-	F	9.37	+	F
23	1	R	0.90	+	1R
24	3	R	1.62	+	3R
25	-	F	16.33	+	F
26	2	R	1.32	+	2R
27	3	R	1.57	+	3R
28	3	R	1.40	+	3R
29	1	C	3.25	+	1C
30	2	R	1.15	+	2R
31	1	C	1.75	+	1C
32	1	R	1.21	+	1R
33	1	R	1.16	+	1R
34	-	F	7.35	+	F
35	1	C	2.00	+	1C
36	-	F	10.78	+	F
37	2	C	2.26	+	2C
38	-	F	12.56	+	F
39	2	C	2.14	+	2C
40	3	R	1.67	+	3R
41	-	F	10.63	+	F
42	1	C	3.16	+	1C
43	-	F	10.09	+	F
44	2	C	1.79	+	2C
45	2	R	1.27	+	2R

RANGE (delayed start)
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12-9-81 SHIFT 1 SUPERVISOR RM A

TEST CONFIGURATION: HPS/Gruss

#	RANGE	TYPE	INTRUDER
1	1	C	✓
2	1	R	✓
3	1	F	✓
4	2	R	✓
5	2	R	✓
6		F	✓
7	3	C	✓
8		F	✓
9	3	R	✓
10	3	R	✓
11	3	R	✓
12	2	C	✓
13	1	C	✓
14	1	C	✓
15	3	C	✓
16	2	R	✓
17		F	✓
18	3	C	✓
19	3	R	✓
20	2	C	✓
21	1	C	✓
22	2	C	✓
23	3	C	✓
24	3	C	✓
25		F	✓
26	2	R	✓
27	2	C	✓
28	1	C	✓
29		F	✓
30		F	✓
31	3	R	✓
32		F	✓
33		F	✓
34	1	R	✓
35	3	F	✓
36	1	R	✓
37	1	C	✓
38	1	F	✓
39		F	✓
40		F	✓
41		F	✓
42	2	C	✓
43		F	✓
44	2	R	✓
45		F	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
1C ✓
F ✓
2C ✓
1R ✓
2R ✓
F ✓
3R ✓
1R ✓
2R ✓
3R ✓

MONITOR TALLY SHEET

DATE 12-8-81 SHIFT 1 STATION TV no human in range 1

OBSERVER P Clements SIS MONITOR RCS

HDS Grass

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	R	1.43	1R	
2	1	R	1.68	1C	
3		F	8.20	F	
4	2	R	1.24	2R	
5	2	R	1.77	2R	
6		F	10.16	F	
7	3	C	3.69	3C	
8		F	8.78	F	
9	3	R	1.62	3R	
10	3	R	1.39	3R	
11	3	R	1.70	3R	
12	2	C	2.25	2C	
13	1	C	1.87	1C	
14	1	R	1.26	1R	
15	3	C	3.33	2C	
16	2	R	1.58	2R	
17		F	11.32	F	
18	3	C	3.63	3C	
19	3	R	1.35	3R	
20	2	C	2.50	2C	
21	1	C	1.62	1C	
22	2	C	1.62	2C	
23	3	C	3.10	3C	
24	3	C	3.17	3C	
25		F	10.54	F	
26	2	R	1.83	2R	
27	2	C	2.43	2R	
28	1	C	1.68	1C	
29		F	8.98	F	
30		F	10.00	F	
31	3	R	1.75	3R	
32		F	11.93	F	
33		F	8.71	F	
34	1	R	1.68	1R	
35		F	8.40	F	
36	1	R	1.53	R	
37	1	C	1.55	1C	
38	1	R	1.28	1R	
39		F	7.79	F	
40		F	9.34	F	
41		F	9.77	F	
42	2	C	1.81	2C	
43		F	8.70	F	
44	2	R	1.46	2R	
45		F	7.35	F	

Start 1753
Finish 1818

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
1C 1.92+
F 8.71+
2C 3.38+ high
1R 1.44+
2R 1.42+
F 8.97+
3R 1.66+
1R 1.37+
2R 1.37+
3R 1.68+

MONITOR TALLY SHEET

DATE 12-9-81 SHIFT 1 STATION Tower

OBSERVER El Henry MONITOR TJB

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	CR	1.52	+	1R
2	1	RC	4.35	+	1C
3		F		+	F
4	2	R	1.51	+	2R
5	2	R	1.40	+	2R
6		F		+	F
7	3	C	5.47	+	3C
8		F		+	F
9	3	R	2.12	+	3R
10	3	R	1.71	+	3R
11	3	R	1.74	+	3R
12	2	C	5.81	+	2C
13	1	C	8.50	+	1C
14	1	R	1.70	+	1R
15	3	C	5.47	+	3C
16	2	R	1.62	+	2R
17		F		+	F
18	3	C	13.43	+	3C
19	3	R	1.82	+	3R
20	2	C	7.18	+	2C
21	1	C	3.67	+	1C
22	2	C	4.35	+	2C
23	3	C	5.07	+	3C
24	3	C	13.60	+	3C
25		F		+	F
26	2	R	1.53	+	2R
27	2	C	5.92	+	2C
28	1	C	3.38	+	1C
29		F		+	F
30		F		+	F
31	3	R	2.07	+	3R
32		F		+	F
33		F		+	F
34	1	R	1.75	+	1R
35		F		+	F
36	1	R	1.79	+	1R
37	1	C	6.43	+	1C
38	1	R	1.84	+	1R
39		F		+	F
40		F		+	F
41		F		+	F
42	2	C	7.47	+	2C
43		F		+	F
44	2	R	1.43	+	2R
45		F		+	F

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
1C + 2.12
F +
2C + 6.81
1R + 1.66
2R + 1.39
F +
3R + 1.78
1R + 1.73
2R + 1.46
3R + 2.02

proper showing in area

INTRUSION SCHEDULE

DATE 12-9-81 SHIFT 2 SUPERVISOR _____

TEST CONFIGURATION: HPS/Grass

#	RANGE	TYPE	INTRUDER
1	3	C	
2		F	
3	3	R	
4	3	C	
5	2	C	
6	3	R	
7	2	C	
8	3	R	
9	1	C	
10		F	
11	1	C	
12		F	
13		F	
14		F	
15		F	
16	3	R	
17		F	
18		F	
19	3	C	
20		F	
21	2	R	
22		F	
23	2	C	
24		F	
25		F	
26	2	R	
27	2	R	
28	1	C	
29	2	C	
30	2	C	
31	1	R	
32	1	C	
33		F	
34	3	C	
35	1	C	
36	1	R	
37	2	R	
38	1	R	
39	3	R	
40	1	R	
41	2	R	
42		F	
43		F	
44	3	C	
45	1	R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

2R
3R
1R
F
1C
3C
2C
F
2C
1R

MONITOR TALLY SHEET

DATE 12-9-81 SHIFT 2 STATION Tower

OBSERVER P Clementsi MONITOR RCS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	C	3.6	3R	↘
2		F		F	
3	3	R	2.45	2R	↘
4	3	C	-	—	↘
5	2	C	3.55	2R	↘
6	3	R		—	↘
7	2	C	14.75	1C	↘
8	3	R	13.72	2C	↘
9	1	C		—	↘
10		F	17.48	1C	↘
11	1	C		—	↘
12		F	24.37	1C	↘
13		F		F	
14		F		F	
15		F	14.79	1C	↘
16	3	R	2.38	1R	↘
17		F	13.17	3C	↘
18		F		F	
19	3	C		—	↘
20		F	4.24	1C	↘
21	2	R	1.74	1R	↘
22		F		F	
23	2	C	10.66	1C	↘
24		F	13.01	1C	↘
25		F		F	
26	2	R	2.0	1R	↘
27	2	R	1.92	1R	↘
28	1	C		—	↘
29	2	C	5.11	3R	↘
30	2	C	10.77	1C	↘
31	1	R	3.28	1R	
32	1	C		—	↘
33		F	16.09	2C	↘
34	3	C		—	↘
35	1	C	2.89	2R	↘
36	1	R	2.23	1R	
37	2	R	1.98	1R	↘
38	1	R	2.02	1R	
39	3	R	2.53	1R	↘
40	1	R	2.08	1R	
41	2	R	1.99	1R	
42		F		F	
43		F		F	
44	3	C	—		↘
45	1	R	2.31	1R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

2R 2.1 1R ↘
3R 2.48 2R ↘
1R 2.23 1R+
F 23.4 1C ↘
1C 16.33 2C ↘
3C — ↘
2C 18.86 3C ↘
F 3.08 3R ↘
2C 10.3 2C+
1R 2.82 1R+

MONITOR TALLY SHEET

DATE 12-9-81 SHIFT 2 STATION CCTV

OBSERVER [illegible] MONITOR RMA 6:35 7:20

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	C	2.60	3C	+
2		F	18.59	F	+
3	3	R	1.53	3R	+
4	3	C	1.99	3C	+
5	2	C	2.05	2C	+
6	3	R	1.59	3R	+
7	2	C	1.96	2C	+
8	3	R	1.29	3R	+
9	1	C	1.90	1C	+
10		F	15.61	F	+
11	1	C	1.85	1C	+
12		F	19.83	F	+
13		F	15.37	F	+
14		F	12.02	F	+
15		F	22.91	F	+
16	3	R	1.63	3R	+
17		F	21.91	F	+
18		F	19.16	F	+
19	3	C	2.64	3C	+
20		F	19.12	F	+
21	2	R	1.57	2R	+
22		F	18.79	F	+
23	2	C	2.13	2C	+
24		F	26.95	F	+
25		F	15.18	F	+
26	2	R	1.73	2R	+
27	2	R	1.20	2R	+
28	1	C	2.29	1C	+
29	2	C	2.51	2C	+
30	2	C	1.61	2C	+
31	1	R	2.10	1R	+
32	1	C	1.96	1C	+
33		F	15.52	F	+
34	3	C	2.86	3C	+
35	1	C	1.72	1C	+
36	1	R	1.52	1R	+
37	2	R	1.48	2R	+
38	1	R	1.31	1R	+
39	3	R	1.46	3R	+
40	1	R	1.40	1R	+
41	2	R	1.43	2R	+
start → 42		F	10.77	F	+
43		F	11.78	F	+
44	3	C	2.78	3C	+
45	1	R	1.23	1R	+

RANGE

1 700 feet
2 800 feet
3 900 feet

TYPE

R Run
C Crawl
F False

NOTES

2R	1.76	2R	+
3R	1.72	3R	+
1R	1.55	1R	+
F	11.18	F	+
1C	1.18	1C	+
3C	2.52	3C	+
2C	2.32	2C	+
F	21.83	F	+
2C	2.52	2C	+
1R	1.53	1R	+

INTRUSION SCHEDULE

DATE 12-9-81 SHIFT 3 SUPERVISOR RCS

TEST CONFIGURATION: HPS/Grass

#	RANGE	TYPE	INTRUDER
1	1	C	
2	3	F	
3	3	C	
4	3	R	
5		F	
6	1	C	
7	1	C	
8	2	R	
9		F	
10		F	
11	2	C	
12		F	
13		F	
14		F	
15	2	R	
16	2	C	
17	1	R	
18		F	
19	3	R	
20	3	C	
21	1	R	
22	[illegible]	[illegible] F	
23	2	[illegible] C	
24	[illegible]	[illegible] F	
25	3	[illegible] C	
26	[illegible]	[illegible] F	
27	2	[illegible] C	
28	2	R	
29	[illegible]	[illegible] F	
30	3	C	
31		F	
32	2	C	
33	1	R	
34		F	
35	1	R	
36	3	C	
37		F	
38	2	R	
39	1	R	
40	3	R	
41	2	R	
42	1	C	
43	1	C	
44	3	R	
45		F	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-9-81 SHIFT 3 STATION CCTV

OBSERVER Paul MONITOR Tom

+IPS Grass

Start 7:33
End 8:09

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	C	2.04	+	1C
2	3	R	1.46	+	3R
3	3	C	3.26	+	3C
4	3	R	1.40	+	3R
5		F	7.47	+	F
6	1	C	1.58	+	1C
7	1	C	1.70	+	1C
8	2	R	1.44	+	2R
9		F	9.33	+	F
10		F	8.97	+	F
11	2	C	1.70	+	2C
12		F	8.23	+	F
13		F	13.05	+	F
14		F	9.93	+	F
15	2	R	1.40	+	2R
16	2	C	2.51	+	2C
17	1	R	1.58	+	1R
18		F	9.00	+	F
19	3	R	1.45	+	3R
20	3	C	3.97	+	3C
21	1	R	1.26	+	1R
22		F	7.42	+	F
23	2	C	2.83	+	2C
24		F	8.86	+	F
25	3	C	2.89	+	3C
26		F	10.67	+	F
27	2	C	2.27	+	2C
28	2	R	1.57	+	2R
29		F	8.57	+	F
30	3	C	2.93	+	3C
31		F	8.01	+	F
32	2	C	3.00	+	2C
33	1	R	1.24	+	1R
34		F	8.71	+	F
35	1	R	1.44	+	1R
36	3	C	2.29	+	3C
37		F	7.02	+	F
38	2	R	1.69	+	2R
39	1	R	1.28	+	1R
40	3	R	1.36	+	3R
41	2	R	1.58	+	2R
42	1	C	1.66	+	1C
43	1	C	1.64	+	1C
44	3	R	1.46	+	3R
45		F	8.24	+	F

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-9-81 SHIFT 3 STATION Tower

OBSERVER Al Henry MONITOR RMA

7:40
8:10

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	C	2.43	1C	+
2	3	R	1.45	3R	+
3	3	C	11.72	3C	+
4	3	R	1.37	3R	+
5		F	—	F	+
6	1	C	2.20	1C	+
7	1	C	2.83	1C	+
8	2	R	1.67	2R	+
9		F	—	F	+
10		F	—	F	+
11	2	C	4.78	2C	+
12		F	—	F	+
13		F	—	F	+
14		F	—	F	+
15	2	R	1.60	2R	+
16	2	C	3.65	2C	+
17	1	R	1.37	1R	+
18		F	—	F	+
19	3	R	1.87	3R	+
20	3	C	4.65	3C	+
21	1	R	1.39	1R	+
22		F	—	F	+
23	2	C	4.92	2C	+
24		F	—	F	+
25	3	C	3.79	3C	+
26		F	—	F	+
27	2	C	6.86	2C	+
28	2	R	1.62	2R	+
29		F	—	F	+
30	3	C	5.79	3C	+
31		F	—	F	+
32	2	C	4.68	2C	+
33	1	R	1.45	1R	+
34		F	—	F	+
35	1	R	1.51	1R	+
36	3	C	5.95	3C	+
37		F	—	F	+
38	2	R	1.68	2R	F
39	1	R	1.42	1R	+
40	3	R	1.77	3R	+
41	2	R	1.51	2R	F
42	1	C	4.86	1C	+
43	1	C	2.09	1C	+
44	3	R	1.92	3R	+
45		F	—	F	+

start

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12-9-81 SHIFT 4 SUPERVISOR RMA

TEST CONFIGURATION: HPS - Grass

#	RANGE	TYPE	INTRUDER
1	3	R	✓
2	1	C	✓
3	1	R	✓
4	3	R	✓
5	3	C	✓
6		F	✓
7	1	C	✓
8		F	✓
9	3	C	✓
10		F	✓
11		F	✓
12	1	R	✓
13	2	C	✓
14	3	C	✓
15	2	C	✓
16		F	✓
17	1	R	✓
18	2	R	✓
19	1	R	✓
20		F	✓
21	2	R	✓
22	2	C	✓
23		F	✓
24	2	R	✓
25	2	R	✓
26	3	C	✓
27		F	✓
28	2	R	✓
29	1	R	✓
30		F	✓
31		F	✓
32	3	R	✓
33		F	✓
34		F	✓
35		F	✓
36	2	C	✓
37		F	✓
38	2	C	✓
39		F	✓
40	1	C	✓
41	3	C	✓
42	1	C	✓
43	1	C	✓
44	3	R	✓
45	3	R	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-9-81 SHIFT 4 STATION TV

OBSERVER E. Henry MONITOR RCS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	R	1.37	3R	
2	1	C	1.70	1C	
3	1	R	1.45	1R	
4	3	R	1.84	3R	
5	3	C	2.47	3C	
6		F	16.03	F	
7	1	C	2.17	1C	
8		F	19.06	F	
9	3	C	4.43	3C	
10		F	20.42	F	
11		F	27.55	F	
12	1	R	1.21	1R	
13	2	C	3.02	2C	
14	3	C	4.13	3C	
15	2	C	3.81	2C	
16		F	13.58	F	
17	1	R	1.24	1R	
18	2	R	1.36	2R	
19	1	R	1.20	1R	
20		F	18.37	F	
21	2	R	1.15	2R	
22	2	C	1.64	2C	
23		F	13.62	F	
24	2	R	1.46	2R	
25	2	R	1.33	2R	
26	3	C	4.05	3C	
27		F	20.59	F	
28	2	R	1.44	2R	
29	1	R	1.30	1R	
30		F	19.26	F	
31		F	21.15	F	
32	3	R	1.86	3R	
33		F	34.13	F	
34		F	18.39	F	
35		F	16.94	F	
36	2	C	1.98	2C	
37		F	24.01	F	
38	2	C	2.85	2C	
39		F	12.78	F	
40	1	C	1.48	1C	
41	3	C	3.36	3C	
42	1	C	4.34	1C	
43	1	C	2.27	1C	
44	3	R	1.34	3R	
45	3	R	1.88	3R	

RANGE
1 700 feet
2 300 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

- before before alarm

MONITOR TALLY SHEET

DATE 12-9-81 SHIFT 4 STATION Tower

OBSERVER Paul MONITOR Tom

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	R	16.87	—	1C
2	1	C	14.83	—	2C
3	1	R	1.73	+	1R
4	3	R	2.67	—	1R
5	3	C	18.33	—	1C
6		F		+	F
7	1	C	——	—	—
8		F	15.42	—	3C
9	3	C	4.99	—	2R
10		F		+	F
11		F	13.63	—	1C
12	1	R	2.27	+	1R
13	2	C	18.15	+	2C
14	3	C	——	—	—
15	2	C	12.20	+	2C
16		F		+	F
17	1	R	2.62	+	1R
18	2	R	1.51	—	1R
19	1	R	3.09	—	2R
20		F	33.17	—	3C
21	2	R	1.85	—	1R
22	2	C	2.31	—	2R
23		F	17.57	—	1C
24	2	R	——	—	—
25	2	R	8.60	—	1C
25	3	C	34.20	—	1C
27		F		+	F
28	2	R	1.60	—	1R
29	1	R	2.30	+	1R
30		F		+	F
31		F		+	F
32	3	R	2.45	+	1R
33		F		+	F
34		F		+	F
35		F		+	F
36	2	C	8.89	—	1C
37		F		+	F
38	2	C	11.29	—	1C
39		F		+	F
40	1	C	14.43	—	2C
41	3	C	——	—	—
42	1	C	10.69	—	3C
43	1	C	——	—	—
44	3	R	3.49	—	1R
45	3	R	3.05	—	2R

Start 8:55

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12/10/81 SHIFT 1 SUPERVISOR TJB

TEST CONFIGURATION: HPS/Rocks

#	RANGE	TYPE	INTRUDER
1	3	R	
2	3	R	
3	1	C	
4	2	C	
5		F	
6		F	
7	1	C	
8		F	
9	2	C	
10	3	R	
11		F	
12	2	R	
13	1	R	
14		F	
15	2	C	
16		F	
17	1	R	
18	2	C	
19	2	R	
20		F	
21	3	R	
22		F	
23	2	R	
24	1	R	
25	1	C	
26		F	
27	1	R	
28		F	
29	1	R	
30	3	C	
31		F	
32	3	R	
33	3	R	
34		F	
35	3	C	
36		F	
37	2	R	
38		F	
39	3	C	
40		F	
41	3	C	
42	1	C	
43	1	C	
44	2	C	
45	3	C	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

F
1R
3R
F
1C
2R
3C
2R
3C
2C

MONITOR TALLY SHEET

DATE 12/10/81 SHIFT 1 STATION Tower

OBSERVER Paul MONITOR Keith

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	R	2.16	3R	+
2	2	R	2.07	2R	+
3	1	C	12.53	1C	+
4	2	C	5.65	2C	+
5		F	--	F	+
6		F	—	F	+
7	1	C	10.61	1C	+
8		F	—	F	+
9	2	C	8.02	2C	+
10	3	R	2.33	3R	+
11		F	--	F	+
12	2	R	2.23	2R	+
13	1	R	2.46	1R	+
14		F	--	F	+
15	2	C	6.86	2C	+
16		F	—	F	+
17	1	R	2.25	1R	+
18	2	C	6.91	2C	+
19	2	R	1.84	2R	+
20		F	—	F	+
21	3	R	2.56	3R	+
22		F	—	F	+
23	2	R	47.18	2R	-
24	1	R	2.24	1R	+
25	1	C	2.60	3R	⊖
26		F	—	F	+
27	1	R	2.45	1R	+
28		F	—	F	+
29	1	R	2.43	1R	+
30	3	C	8.13	3C	+
31		F	--	F	+
32	3	R	2.28	3R	+
33	3	R	2.56	3R	+
34		F	—	F	+
35	3	C	6.24	3C	+
36		F	—	F	+
37	2	R	1.99	2R	+
38		F	—	F	+
39	3	C	7.10	3C	+
40		F	—	F	+
41	3	C	6.50	3C	+
42	1	C	14.92	1C	+
43	1	C	—	F	⊖
44	2	C	9.2.	2C	+
45	3	C	7.07	3C	+

Start →

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
F - 2R ⊖
1R - 2.47 - 1R +
3R - 2.74 - 3R - +
F - 3C - ⊖
1C - 11.92 - 1C - +
2R - 2.24 - 2R +
3C ——— O
2R - 2.13 - 2R - +
3C - 10.70 - 3C - +
2C - 6.71 - 2C - +

} - 45.12

→ shadow at 3 caused by wind ?

45.20 } subtract

MONITOR TALLY SHEET

DATE 12-10-81 SHIFT 1 STATION TV

OBSERVER E Henry MONITOR PRS

HPS - Rocks

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	R	1.68	3R	
2	2	R	1.74	2R	
3	1	C	2.09	1C	
4	2	C	1.80	2C	
5		F	21.62	F	
6		F	27.00	F	
7	1	C	1.83	1C	
8		F	22.10	F	
9	2	C	2.38	2C	
10	3	R	1.64	3R	
11		F	17.93	F	
12	2	R	1.58	2R	
13	1	R	1.63	1R	
14		F	27.21	F	
15	2	C	2.02	2C	
16		F	14.56	F	
17	1	R	.70	1R	
18	2	C	1.86	2C	
19	2	R	1.23	2R	
20		F	14.62	F	
21	3	R	1.74	3R	
22		F	20.34	F	
23	2	R		2R	
24	1	R	1.49	1R	
25	1	C	3.08	1C	
26		F	38.11	F	
27	1	R	1.66	1R	
28		F	13.48	F	
29	1	R	2.03	1R	
30	3	C	2.83	3C	
31		F	14.37	F	
32	3	R	1.58	3R	
33	3	R	1.76	3R	
34		F	13.91	F	
35	3	C	2.72	3C	
36		F	20.61	F	
37	2	R	2.50	2R	
38		F	15.90	F	
39	3	C	2.38	3C	
40		F	12.88	F	
41	3	C	3.02	3C	
42	1	C	4.29	1C	
43	1	C	3.17	1C	
44	2	C	6.01	2C	
45	3	C	3.26	3C	

start

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

F
1R 2.23+
3R 1.73+
F 17.18+
1C 1.32+
2R 1.54+
3C 1.90+
2R 1.41+
[redacted]
2C 2.12+
timer not reset 2C 1.86+

moved chair forward

Apparently starts scan at 3 and moves in toward 1

INTRUSION SCHEDULE

DATE 12/10 SHIFT 2 SUPERVISOR RRS

TEST CONFIGURATION: HPS/Rocks

#	RANGE	TYPE	INTRUDER
1	2	R	
2		F	
3	2	R	
4		F	
5	1	C	
6		F	
7	1	R	
8	2	R	
9	2	R	
10		F	
11		F	
12	1	R	
13	3	R	
14	3	C	
15	2	C	
16	2	R	
17	1	C	
18		F	
19		F	
20		F	
21	1	R	
22	3	C	
23	3	R	
24	3	R	
25	3	R	
26	2	C	
27		F	
28	2	C	
29	2	C	
30	1	C	
31		F	
32	3	C	
33		F	
34		F	
35	3	R	
36	1	C	
37	1	R	
38	3	C	
39	2	C	
40	1	R	
41		F	
42		F	
43		F	
44	1	C	
45	3	C	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES 6. 1 3 C
1 F
1 3 C
1 F
1 1 C
1 2 C
1 1 R
1 3 R
1 3 R
2 R

MONITOR TALLY SHEET

DATE 12-10-81 SHIFT 2 STATION CCTV

1925

OBSERVER Paul MONITOR RMA

HPS ROCKS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	1.63	2R	+
2		F	7.43	F	+
3	2	R	1.36	2R	+
4		F	8.35	F	+
5	1	C	1.70	1C	+
6		F	7.88	F	+
7	1	R	1.46	1R	+
8	2	R	1.48	2R	+
9	2	R	1.83	2R	+
10		F	8.02	F	+
11		F	7.16	F	+
12	1	R	1.20	1R	+
13	3	R	1.70	3R	+
14	3	C	2.08	3C	+
15	2	C	1.72	2C	+
16	2	R	1.44	2R	+
17	1	C	1.87	1C	+
18		F	9.55	F	+
19		F	9.68	F	+
20		F	10.85	F	+
21	1	R	1.43	1R	+
22	3	C	2.83	3C	+
23	3	R	1.45	3R	+
24	3	R	1.85	3R	+
25	3	R	1.26	3R	+
26	2	C	2.04	2C	+
27		F	8.35	F	+
28	2	C	2.39	2C	+
29	2	C	3.14	2C	+
30	1	C	1.91	1C	+
31		F	9.77	F	+
32	3	C	3.55	3C	+
33		F	9.70	F	+
34		F	8.40	F	+
35	3	R	2.38	3R	+
36	1	C	3.06	1C	+
37	1	R	1.40	1R	+
38	3	C	2.54	3C	+
39	2	C	2.89	2C	+
40	1	R	1.38	1R	+
41		F	7.74	F	+
42		F	9.30	F	+
43		F	8.19	F	+
44	1	C	3.54	1C	+
45	3	C	2.46	3C	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

3C -1.85- 3C - +
F - 6.79 - F - +
3C - 3.48 - 3C - +
F - 10.00 - F - +
1C - 1.52 - 1C - +
2C - 2.54 - 2C - +
1R - 1.41 - 1R - +
3R - 1.67 - 3R - +
3R - 1.30 - 3R + +
2R - 1.41 2R +

short →

MONITOR TALLY SHEET

DATE 12/10/81 SHIFT 2 STATION Tower

OBSERVER EK MONITOR 1

HPS Rolls

#	RANGE	TYPE	DETECTION TIME	RESET	RESULT
1	2	R	1.4x	+	2R
2		F		+	F
3	2	R	1.8	+	2R
4		F		+	F
5	1	C	6.13	+	1C
6		F		+	F
7	1	R	2.06	+	1R
8	2	R	1.66	+	2R
9	2	R	2.02	+	2R
10		F		+	F
11		F		+	F
12	1	R	1.94	+	1R
13	3	R	2.01	+	3R
14	3	C	3.66	+	3C
15	2	C	4.64	+	2C
16	2	R	1.15	+	2R
17	1	C	10.20	+	1C
18		F		+	F
19		F		+	F
20		F		+	F
21	1	R	1.87	+	1R
22	3	C	5.97	+	3C
23	3	R	1.52	+	3R
24	3	R	1.87	+	3R
25	3	R	1.46	+	3R
26	2	C	6.33	+	2C
27		F		+	F
28	2	C	5.91	+	2C
29	2	C	6.30	+	2C
30	1	C	7.22	+	1C
31		F		+	F
32	3	C	5.50	+	3C
33		F		+	F
34		F		+	F
35	3	R	5.12	+	3R — delayed start —
36	1	C	8.72	+	1C
37	1	R	2.55	+	1R
38	3	C	6.11	+	3C
39	2	C	6.34	+	2C
40	1	R	2.19	+	1R
41		F		+	F
42		F		+	F
43		F		+	F
44	1	C	9.65	+	1C
45	3	C	6.24	+	3C

RANGE
1 [illegible]
2 [illegible]
3 [illegible]

TYPE
R [illegible]
C [illegible]
F False

NOTES
3C + 4.03
F +
3C + 8.44
F +
1C + 6.29
2C + 6.91
1R + 1.98
3R + 1.92
3R + 1.62
2R + 1.81

INTRUSION SCHEDULE

DATE 12/10 SHIFT 3 SUPERVISOR R MA

TEST CONFIGURATION: HPS/Rocks

#	RANGE	TYPE	INTRUDER
1	1	R	✓
2		F	✓
3		F	✓
4	3	R	✓
5	1	R	✓
6		F	✓
7	3	R	✓
8		F	✓
9		F	✓
10	3	R	✓
11		F	✓
12	3	R	✓
13	1	C	✓
14		F	✓
15	2	C	✓
16	3	C	✓
17	3	R	✓
18	1	R	✓
19	2	R	✓
20	2	C	✓
21	1	C	✓
22		F	✓
23		F	✓
24	3	C	✓
25	3	C	✓
26	2	R	✓
27	1	C	✓
28	3	C	✓
29	2	C	✓
30		F	✓
31		F	✓
32	2	C	✓
33		F	✓
34	2	R	✓
35		F	✓
36	2	R	✓
37	1	C	✓
38	1	C	✓
39	1	R	✓
40	2	C	✓
41		F	
42		F	✓
43	3	C	✓
44	2	R	✓
45	1	R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/11/81 SHIFT 3 STATION Tower

OBSERVER P Clements MONITOR RCS
HYS/Rochs

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT	
1	1	R	2.37	1R		
2		F		F		
3		F		F		
4	3	R	—	—	↘	
5	1	R	1.70	1R		
6		F		F		
7	3	R	—	—	↘	
8		F		F		
9		F		F		
10	3	R	2.25	3R		
11		F		F		
12	3	R		—	↘	
13	1	C	6.36	3C	↘	
14		F		F		
15	2	C	6.26	2C		
16	3	C	11.6	3C		
17	3	R	2.88	3R		
18	1	R	2.21	1R		
19	2	R	1.74	2R		
20	2	C	6.36	2C		
21	1	C	—	—	↘	
22		F		F		
23		F	12.59	1C	↘	
24	3	C	6.24	3C		
25	3	C	7.51	3C		
26	2	R	1.63	2R		
27	1	C	11.35	1C		
28	3	C	14.29	3C		
29	2	C	7.63	2C		
30		F		F		
31		F		F		
32	2	C	8.96	2C		
33		F		F		
34	2	R	1.76	2R		
35		F		F		
36	2	R	1.44	2R		
37	1	C	—	—	↘	thought he saw him didn't wait to guess
38	1	C	8.17	1C		
39	1	R	2.18	1R		
40	2	C	8.20	2C		
41		F		F		
42		F		F		
43	3	C	6.21	3C		
44	2	R	1.46	2R		
45	1	R	2.36	1R		

RANGE
1 700 feet
2 300 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-10-81 SHIFT 3 STATION CCTV

OBSERVER El MONITOR Jan

HPS/Rocks

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	R	1.48	+	1R
2		F	7.28	+	F
3		F	14.15	+	F
4	3	R	1.88	+	3R
5	1	R	1.49	+	1R
6		F	10.31	+	F
7	3	R	1.69	+	3R
8		F	18.31	+	F
9		F	29.24	+	F
10	3	R	1.60	+	3R
11		F	23.90	+	F
12	3	R	1.77	+	3R
13	1	C	1.96	+	1C
14		F	14.82	+	F
15	2	C	3.91	+	2C
16	3	C	2.47	+	3C
17	3	R	1.78	+	3R
18	1	R	1.56	+	1R
19	2	R	1.62	+	2R
20	2	C	2.86	+	2C
21	1	C	3.04	+	1C
22		F	25.46	+	F
23		F	20.53	+	F
24	3	C	2.27	+	3C
25	3	C	3.43	+	3C
26	2	R	1.40	+	2R
27	1	C	3.17	+	1C
28	3	C	2.76	+	3C
29	2	C	2.60	+	2C
30		F	13.58	+	F
31		F	10.45	+	F
32	2	C	2.96	+	2C
33		F	14.38	+	F
34	2	R	1.81	+	2R
35		F	25.92	+	F
36	2	R	1.30	+	2R
37	1	C	2.21	+	1C
38	1	C	4.01	+	1C
39	1	R	1.75	+	1R
40	2	C	2.48	+	2C
41		F	10.02	+	F
42		F	13.35	+	F
43	3	C	3.18	+	3C
44	2	R	1.80	+	2R
45	1	R	1.82	+	1R

Start G

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES Long F times for El probably attributable to Nick talking to him earlier about peeping.
Cold, windy snow flurries.

4

INTRUSION SCHEDULE

DATE 12/10/81 SHIFT 4 SUPERVISOR _____

TEST CONFIGURATION: HPS/rocks

#	RANGE	TYPE	INTRUDER
1	2	C	✓
2	1	C	
3	2	C	✓
4		F	✓
5	1	R	
6	3	R	✓
7	2	R	
8	2	C	
9		F	
10		F	
11	1	R	
12	1	C	
13	2	C	
14	3	R	
15	1	C	
16		F	
17	2	R	✓
18		F	
19		F	
20	2	R	
21		F	
22	3	R	
23		F	
24	1	R	
25	3	C	
26	2	R	
27	3	R	
28	1	C	
29	3	C	
30		F	✓
31		F	
32	3	R	
33		F	✓
34		F	✓
35	3	C	
36	1	R	
37		F	
38		F	
39	3	C	✓
40		F	
41	2	R	
42	2	C	
43	1	C	
44	1	R	
45	3	C	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-10-81 SHIFT 4 STATION TV

OBSERVER PC MONITOR RCS

HPS/ROCKS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	C	1.61	2C	
2	1	C	1.60	1C	
3	2	C	2.13	2C	
4		F	7.85	F	
5	1	R	1.45	1R	
6	3	R	1.50	3R	
7	2	R	1.63	2R	
8	2	C	2.18	2C	
9		F	9.05	F	
10		F	9.45	F	
11	1	R	1.45	1R	
12	1	C	1.75	1C	
13	2	C	2.64	2C	
14	3	R	1.59	3R	
15	1	C	2.61	1C	
16		F	9.03	F	
17	2	R	1.74	2R	
18		F	8.52	F	
19		F	8.90	F	
20	2	R	1.81	2R	
21		F	7.14	F	
22	3	R	1.61	3R	
23		F	9.48	F	
24	1	R	1.26	1R	
25	3	C	3.20	3C	
26	2	R	1.49	2R	
27	3	R	1.70	3R	
28	1	C	1.98	1C	
29	3	C	3.74	3C	
30		F	6.60	F	
31		F	8.42	F	
32	3	R	1.61	3R	
33		F	8.98	F	
34		F	8.19	F	
35	3	C	3.32	3C	
36	1	R	1.41	1R	
37		F	7.96	F	
38		F	8.97	F	
39	3	C	11.96?	3C	
40		F	8.13	F	
41	2	R	1.32	2R	
42	2	C	1.59	2C	
43	1	C	1.95	1C	
44	1	R	1.30	1R	
45	3	C	2.28	3C	

start 401

RANGE
1 700 feet
2 800 feet
3 900 feet

231 2C repeat

TYPE
R Run
C Crawl
F False

NOTES

1.52 1R

timer reset?

MONITOR TALLY SHEET

DATE 12/10/81 SHIFT 4 STATION Jowin 901

OBSERVER [illegible] HPS/Radia MONITOR RMA 9:29

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	C	5.17	2C	+
2	1	C	1.82	1C	+
3	2	C	5.38	2C	+
4		F	—	F	+
5	1	R	1.63	1R	+
6	3	R	1.77	3R	+
7	2	R	1.16	2R	+
8	2	C	4.72	2C	+
9		F	—	F	+
10		F	—	F	+
11	1	R	1.56	1R	+
12	1	C	8.49	1C	+
13	2	C	4.75	2C	+
14	3	R	1.81	3R	+
15	1	C	6.42	1C	+
16		F	—	F	+
17	2	R	1.94	2R	+
18		F	—	F	+
19		F	—	F	+
20	2	R	1.58	2R	+
21		F	—	F	+
22	3	R	1.70	3R	+
23		F	—	F	+
24	1	R	1.63	1R	+
25	3	C	5.89	3C	+
26	2	R	1.51	2R	+
27	3	R	1.77	3R	+
28	1	C	5.48	1C	+
29	3	C	5.96	3C	+
30		F	—	F	+
31		F	—	F	+
32	3	R	1.46	3R	+
33		F	—	F	+
34		F	—	F	+
35	3	C	4.91	3C	+
36	1	R	1.62	1R	+
37		F	—	F	+
38		F	—	F	+
39	3	C	51.17	3C	+
40		F	—	F	+
41	2	R	1.35	2R	+
42	2	C	4.24	2C	+
43	1	C	6.83	1C	+
44	1	R	1.62	1R	+
45	3	C	2.5	3C	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

both guys ran together

45.26 > the difference

INTRUSION SCHEDULE

DATE 12/11/81 SHIFT 1 SUPERVISOR TRS

TEST CONFIGURATION: HRS/Rods

#	RANGE	TYPE	INTRUDER
1	1	C	
2	3	C	
3		F	
4	3	R	
5	1	C	
6		F	
7	3	R	
8	1	C	
9	3	C	
10		F	
11	1	R	
12		F	
13	2	C	
14	1	R	
15		F	
16	3	R	
17	2	R	
18		F	
19		F	
20	1	R	
21		F	
22	3	R	
23		F	
24	3	C	
25	2	R	
26	2	R	
27	1	R	
28		F	
29		F	
30	1	R	
31		F	
32	3	C	
33	2	C	
34	2	R	
35	2	C	
36	1	C	
37	1	C	
38		F	
39	2	R	
40		F	
41	3	C	
42	2	C	
43	2	C	
44	3	R	
45		F	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

1

MONITOR TALLY SHEET

DATE 12-11-81 SHIFT 1 STATION Tower

OBSERVER E Henry MONITOR Tom

HPS/LOCKS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	C	4.26	+	1C
2	3	C	3.17	+	3C
3		F		+	F
4	3	R	1.93	+	3R
5	1	C	3.44	+	1C
6		F		+	F
7	3	R	1.77	+	3R
8	1	C	4.75	+	1C
9	3	C	5.79	+	3C
10		F		+	F
11	1	R	1.65	+	1R
12		F		+	F
13	2	C	4.98	+	2C
14	1	R	1.50	+	1R
15		F		+	F
16	3	R	1.64	+	3R
17	2	R	1.39	+	2R
18		F		+	F
19		F		+	F
20	1	R	1.64	+	1R
21		F		+	F
22	3	R	1.58	+	3R
23		F		+	F
24	3	C	4.65	+	3C
25	2	R	1.47	+	2R
26	2	R	1.68	+	2R
27	1	R	1.54	+	1R
28		F		+	F
29		F		+	F
30	1	R	1.73	+	1R
31		F		+	F
32	3	C	2.58	+	3C
33	2	C	5.55	+	2C
34	2	R	1.45	+	2R
35	2	C	4.48	+	2C
36	1	C	4.46	+	1C
37	1	C	8.21	+	1C
38		F		+	F
39	2	R	1.34	+	2R
40		F		+	F
41	3	C	6.22	+	3C
42	2	C	3.65	+	2C
43	2	C	3.91	+	2C
44	3	R	1.57	+	3R
45		F		+	F

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

1C - 4.32
2R + 1.56
F +
3C + 2.66
2C + 4.67
1R + 1.67
3R + 1.42
F +
2C + 4.59
3R + 1.70

MONITOR TALLY SHEET

DATE 2/11/81 SHIFT 1 STATION TV

OBSERVER R Clementsia MONITOR RMA

HPS/Rocks

6.0
6.34

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	C	2.28	1C	+
2	3	C	1.87	3C	+
3		F	7.32	F	+
4	3	R	1.77	3R	+
5	1	C	1.43	1C	+
6		F	7.22	F	+
7	3	R	1.62	3R	+
8	1	C	2.19	1C	+
9	3	C	3.24	3C	+
10		F	6.16	F	+
11	1	R	1.75	1R	+
12		F	6.64	F	+
13	2	C	2.18	2C	+
14	1	R	1.12	1R	+
15		F	7.18	F	+
16	3	R	1.45	3R	+
17	2	R	1.64	2R	+
18		F	7.89	F	+
19		F	7.89	F	+
20	1	R	1.11	1R	+
21		F	6.47	F	+
22	3	R	1.36	3R	+
23		F	6.92	F	+
24	3	C	2.52	3C	+
25	2	R	1.58	2R	+
26	2	R	1.58	2R	+
27	1	R	1.43	1R	+
28		F	6.23	F	+
29		F	8.28	F	+
30	1	R	1.28	1R	+
31		F	6.69	F	+
32	3	C	2.4	3C	+
33	2	C	1.68	2C	+
34	2	R	1.30	2R	+
35	2	C	1.69	2C	+
36	1	C	1.90	1C	+
37	1	C	3.20	1C	+
38		F	7.06	F	+
39	2	R	1.60	2R	+
40		F	6.35	F	+
41	3	C	2.58	3C	+
42	2	C	1.84	2C	+
43	2	C	1.56	2C	+
44	3	R	1.46	3R	+
45		F	6.09	F	+

shots

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
1C-2.02-1C +
2R-1.63-2R +
F-9.64-F-+
3C-1.94-3C +
2C-2.06-2C +
1R-1.26-1R +
3R-1.44-3R +
F-6.58 F +
2C-1.80 2C +
3R-1.43 3R +

INTRUSION SCHEDULE

DATE 12/11/81 SHIFT 2 SUPERVISOR ICMA

TEST CONFIGURATION: HPS/Rocks

#	RANGE	TYPE	INTRUDER
1	3	C	✓
2	1	C	✓
3		F	✓
4	1	C	✓
5		F	✓
6		F	✓
7	2	R	✓
8		F	✓
9	3	C	✓
10		F	✓
11	1	C	✓
12	1	C	✓
13	1	R	✓
14	3	R	✓
15	3	R	✓
16	3	R	✓
17	1	R	✓
18		F	✓
19		F	✓
20	1	R	✓
21	1	R	✓
22		F	✓
23	2	C	✓
24	2	R	✓
25	2	R	✓
26		F	✓
27	2	C	✓
28		F	✓
29	2	R	✓
30	2	R	✓
31	3	C	✓
32	1	C	✓
33		F	✓
34	3	C	✓
35	3	R	✓
36	3	C	✓
37		F	✓
38	2	C	✓
39	1	R	✓
40	2	C	✓
41		F	✓
42	3	R	✓
43	2	C	✓
44		F	✓
45		F	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
2R✓
1C✓
3C✓
F✓
3R✓
2C✓
1R✓
F✓
3C✓
2R✓

MONITOR TALLY SHEET

DATE 12/11/91 SHIFT 2 STATION Tower

OBSERVER P. Clementsia HPS/Parks MONITOR TRGS

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	3	C	4.0	3C	
2	1	C	6.0	3C	
3		F		F	
4	1	C	8.76	1C	
5		F		F	
6		F		F	
7	2	R	1.59	2R	
8		F		F	
9	3	C	6.47	3C	
10		F		F	
11	1	C	9.22	1C	
12	1	C	8.60	1C	
13	31	R	1.98	1R	
14	3	R	2.20	3R	
15	3	R	2.03	3R	
16	3	R	2.16	3R	
17	1	R	2.08	1R	
18		F		F	
19		F		F	
20	1	R	2.07	1R	
21	1	R	2.05	1R	
22		F		F	
23	2	C	4.58	2C	
24	2	R	1.78	2R	
25	2	R	1.59	2R	
26		F		F	
27	2	C	6.28	2C	
28		F		F	
29	2	R	1.59	2R	
30	2	R	1.37	2R	
31	3	C	—	—	
32	1	C	11.11	1C	
33		F		F	
34	3	C	8.87	3C	
35	3	R	2.29	3R	
36	3	C	7.46	3C	
37		F		F	
38	2	C	5.37	2C	
39	1	R	1.96	1R	
40	2	C	6.98	2C	
41		F		F	
42	3	R	2.02	3R	
43	2	C	6.31	2C	
44		F		F	
45		F		F	

start 1857

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
2R 1.89 +
1C 14.06 +
3C 2.28 3R
F F +
3R 2.26 +
2C 4.93 +
1R 2.22 +
F F +
3C 4.90 +
2R 1.70 +

MONITOR TALLY SHEET

DATE 12-11-81 SHIFT 2 STATION CCTV

OBSERVER El MONITOR Tom

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT	
1	3	C	3.58	+	3C	
2	1	C	2.64	+	1C	
3		F	11.01	+	F	
4	1	C	1.81	+	1C	
5		F	14.49	+	F	
6		F	10.09	+	F	
7	2	R	1.57	+	2R	
8		F	9.73	+	F	
9	3	C	3.60	+	3C	
10		F	7.91	+	F	
11	1	C	3.12	+	1C	
12	1	C	2.83	+	1C	
13	1	R	1.42	+	1R	
14	3	R	1.55	+	3R	
15	3	R	1.46	+	3R	
16	3	R	1.55	+	3R	
17	1	R	1.28	+	1R	
18		F	15.58	+	F	
19		F	9.94	+	F	
20	1	R	1.51	+	1R	G
21	1	R	1.57	+	1R	J
22		F	8.55	+	F	
23	2	C	1.86	+	2C	
24	2	R	1.62	+	2R	
25	2	R	1.50	+	2R	
26		F	12.53	+	F	
27	2	C	3.94	+	2C	
28		F	26.49	+	F	
29	2	R	1.41	+	2R	
30	2	R	1.58	+	2R	
31	3	C	2.03	+	3C	
32	1	C	4.23	+	1C	
33		F	8.07	+	F	
34	3	C	2.08	+	3C	
35	3	R	1.75	+	3R	
36	3	C	3.81	+	3C	
37		F	21.69	+	F	
38	2	C	2.24	+	2C	
39	1	R	1.83	+	1R	
40	2	C	2.83	+	2C	
41		F	8.45	+	F	
42	3	R	1.48	+	3R	
43	2	C	2.36	+	2C	11.29
44		F	11.29	+	F	
45		F	11.12	+	F	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

2R +1.71
1C +4.70
3C +2.34
F +32.87
3R +1.57
2C +3.90
1R +2.05
F +22.50
3C +3.83
2R +1.60

INTRUSION SCHEDULE

DATE 12/11/81 SHIFT 3 SUPERVISOR TJB

TEST CONFIGURATION: APS/Rocks

#	RANGE	TYPE	INTRUDER
1		F	✓
2	2	C	✓
3		F	✓
4	2	R	✓
5	2	C	✓
6		F	✓
7	3	R	✓
8		F	✓
9		F	✓
10	1	C	✓
11	2	C	✓
12	3	R	✓
13	1	R	✓
14	3	R	✓
15	2	R	✓
16	2	C	✓
17	3	R	✓
18	3	C	✓
19	3	C	✓
20	3	C	✓
21	1	R	✓
22		F	✓
23	2	R	✓
24		F	✓
25	2	C	✓
26	3	C	✓
27	3	C	✓
28	1	R	✓
29	1	R	✓
30		F	✓
31	1	C	✓
32		F	✓
33		F	✓
34		F	✓
35	1	C	✓
36	1	C	✓
37	3	R	✓
38	1	R	✓
39	2	R	✓
40		F	✓
41		F	✓
42	2	R	✓
43		F	✓
44	1	C	✓
45		F	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-11-81 SHIFT 3 STATION Tower

OBSERVER Col Henry MONITOR RinA

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	—	F	+
2	2	C	2.93	2C	+
3		F	—	F	+
4	2	R	1.84	2R	+
5	2	C	3.79	2C	+
6		F	—	F	+
7	3	R	1.94	3R	+
8		F	—	F	+
9		F	—	F	+
10	1	C	3.19	1C	+
11	2	C	3.64	2C	+
12	3	R	1.47	3R	+
13	1	R	1.70	1R	+
14	3	R	1.87	3R	+
15	2	R	2.16	2R	+
16	2	C	4.40	2C	+
17	3	R	1.63	3R	+
18	2	C	2.67	2C	+
19	3	C	5.39	3C	+
20	3	C	3.17	3C	+
21	1	R	1.69	1R	+
22		F	—	F	+
23	2	R	1.65	2R	+
24		F	—	F	+
25	2	C	4.15	2C	+
26	3	C	2.83	3C	+
27	3	C	5.61	3C	+
28	1	R	1.77	1R	+
29	1	R	1.87	1R	+
30		F	—	F	+
31	1	C	3.52	1C	+
32		F	—	F	+
33		F	—	F	+
34		F	—	F	+
35	1	C	3.96	1C	+
36	1	C	3.41	1C	+
37	3	R	5.43	3R	+
38	1	R	1.54	1R	+
39	2	R	1.90	2R	+
40		F	—	F	+
41		F	—	F	+
42	2	R	1.39	2R	+
43		F	—	F	+
44	1	C	5.74	1C	+
45		F	—	F	+

shot →

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

} Take shift/runner

MONITOR TALLY SHEET

DATE 12/11/81 SHIFT 3 STATION TV

OBSERVER Paul MONITOR RS

HPS / Rocks

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	8.47	F	
2	2	C	1.86	2C	
3		F	6.78	F	
4	2	R	1.54	2R	
5	2	C	1.72	2C	
6		F	7.64	F	
7	3	R	0.90	3R	
8		F	6.63	F	
9		F	6.05	F	
10	1	C	1.71	1C	3.1 (1)
11	2	C	2.02	2C	3.4
12	3	R	1.40	3R	
13	1	R	1.32	1R	
14	3	R	1.17	3R	
15	2	R	1.81	2R	
16	2	C	1.67	2C	
17	3	R	1.45	3R	
18	3	C	1.68	3C	
19	3	C	2.97	3C	
20	3	C	1.98	3C	
21	1	R	1.22	1R	
22		F	6.86	F	
23	2	R	1.34	2R	
24		F	6.23	F	
25	2	C	1.71	2C	
26	3	C	1.43	3C	
27	3	C	3.16	3C	
28	1	R	1.16	1R	
29	1	R	1.10	1R	
30		F	7.71	F	
31	1	C	1.98	1C	
32		F	6.75	F	
33		F	7.06	F	
34		F	15.65	F	
35	1	C	2.28	1C	
36	1	C	1.67	1C	
37	3	R	3.26	3R	
38	1	R	1.13	1R	
39	2	R	1.47	2R	
40		F	7.34	F	
41		F	7.62	F	
42	2	R	1.44	2R	
43		F	7.46	F	
44	1	C	2.00	1C	
45		F	8.78	F	

Start: ~1930
Finish!

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
(1) Times from alarm for when intruder kneeling makes the rocks

INTRUSION SCHEDULE

DATE 12/14/81 SHIFT 4 SUPERVISOR RBS

TEST CONFIGURATION: HPS/rocks

#	RANGE	TYPE	INTRUDER
1	2	R	
2	3	C	
3		F	
4		F	
5	2	R	
6	2	R	
7	1	R	
8	1	R	
9	1	C	
10		F	
11	3	C	
12		F	
13	2	C	
14		F	
15		F	
16	2	C	
17	2	C	
18	2	C	
19		F	
20		F	
21	3	R	
22	3	R	
23		F	
24	1	C	
25		F	
26	1	C	
27	1	C	
28	1	R	
29		F	
30	3	C	
31		F	
32		F	
33	1	C	
34	2	R	
35	1	R	
36	3	R	
37	3	C	
38	3	R	
39	3	R	
40	3	C	
41		F	
42		F	
43	2	R	
44	1	R	
45	2	C	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/11/81 SHIFT 4 STATION Tower

OBSERVER Paul MONITOR TJB

HPS/Rocks

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	R	2.11	+	2R
2	3	C	5.00	+	3C
3		F		+	F
4		F		+	F
5	2	R	1.89	+	2R
6	2	R	1.71	+	2R
7	1	R	2.08	+	1R
8	1	R	1.95	+	1R
9	1	C	11.47	+	1C
10		F		+	F
11	3	C	4.53	+	3C
12		F		+	F
13	2	C	5.89	+	2C
14		F		+	F
15		F		+	F
16	2	C	4.26	+	2C
17	2	C	6.55	+	2C
18	2	C	4.90	+	2C
19		F		+	F
20		F		+	F
21	3	R	2.17	+	3R
22	3	R	1.97	+	3R
23		F		+	F
24	1	C	8.27	+	1C
25		F		+	F
26	1	C	10.60	+	1C
27	1	C	6.36	+	1C
28	1	R	1.74	+	1R
29		F	7.38	−	1C
30	3	C	—	—	—
31		F		+	F
32		F		+	F
33	1	C	9.14	+	1C
34	2	R	1.96	+	2R
35	1	R	1.90	+	1R
36	3	R	2.39	+	3R
37	3	C	—	—	—
38	3	R	—	—	—
39	3	R	~2.00	+	3R
40	3	C	6.65	+	3C
41		F		+	F
42		F		+	F
43	2	R	1.93	+	2R
44	1	R	2.10	+	1R
45	2	C	7.72	+	2C

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES Full Moon

No timer reset.

MONITOR TALLY SHEET

DATE 12-11-81 SHIFT 4 STATION CCTV

OBSERVER W Henry MONITOR RmA

Run Time ↓

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT	
1	2	R	1.64	2R	+	
2	3	C	1.83	3C	+1.4	G
3		F	8.16	F	+	
4		F	12.50	F	+	
5	2	R	1.80	2R	+	
6	2	R	1.88	2R	+	
7	1	R	1.61	1R	+	
8	1	R	1.23	1R	+	
9	1	C	2.43	1C	+2.2	
10		F	10.89	F	+	
11	3	C	1.80	3C	+1.3	G
12		F	7.55	F	+	
13	2	C	1.63	2C	+2.7	J
14		F	13.72	F	+	
15		F	12.08	F	+	
16	2	C	2.11	2C	+2.4	G
17	2	C	2.05	2C	+2.8	J
18	2	C	2.04	2C	+2.5	G
19		F	7.93	F	+	
20		F	10.84	F	+	
21	3	R	1.67	3R	+	
22	3	R	1.41	3R	+	
23		F	10.44	F	+	
24	1	C	2.27	1C	+2.3	J
25		F	17.39	F	+	
26	1	C	1.84	1C	+2.3	G
27	1	C	2.45	1C	+2.7	J
28	1	R	1.39	1R	+	
29		F	10.92	F	+	> subtract
30	3	C	13.07	3C	+	
31		F	7.19	F	+	
32		F	11.86	F	+	
33	1	C	2.79	1C	+1.7	G
34	2	R	1.78	2R	+	
35	1	R	1.32	1R	+	
36	3	R	1.92	3R	+	
37	3	C	2.64	3C	+1.2	G
38	3	R	1.66	3R	+	J > subtract
39	3	R	2.92	3R	+	
40	3	C	3.77	3C	+2.7	J
41		F	8.49	F	+	
42		F	9.98	F	+	
43	2	R	2.11	2R	+	
44	1	R	1.53	1R	+	
45	2	C	2.63	2C	+2.9	G

J 2.6
G 2.3

2.95 start →

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

INTRUSION SCHEDULE

DATE 12/14/81 SHIFT 1 SUPERVISOR Tom

TEST CONFIGURATION: HFS ~~[illegible]~~/Rocks (rain)

#	RANGE	TYPE	INTRUDER
1	1	R	V
2		F	
3	3	C	
4	1	R	V
5		F	V
6		F	
7		F	
8	3	C	V
9	3	R	V
10	1	C	V
11	2	C	V
12		F	V
13	1	C	V
14	3	C	V
15	1	C	V
16	1	R	V
17	1	C	V
18		F	V
19	2	C	V
20	3	R	V
21	3	R	
22		F	
23	3	R	
24		F	
25	2	C	
26		F	
27	1	R	
28	1	C	
29		F	
30	2	C	
31		F	
32		F	
33	2	R	
34		F	
35	3	R	
36	2	R	
37	2	R	
38	2	R	
39	2	R	V
40	2	C	
41	3	C	
42		F	V
43		F	V
44	1	R	V
45	3	C	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
2C
3R
1C
F
1R
2R
3C
F
1C
2R

MONITOR TALLY SHEET

DATE 12-14-81 SHIFT 1 STATION Tower

OBSERVER E. Henry MONITOR RCS

Hard/Rocky (rain)

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	R	.75	1R	
2		F	1.37	F	↘
3	3	C	10.11	3C	
4	1	R	2.40	1R	
5		F		F	
6		F		F	
7		F		F	
8	3	C	11.05	3C	
9	3	R	3.24	3R	
10	1	C	5.41	1C	
11	2	C	7.05	2C	
12		F		F	
13	1	C	5.24	1C	
14	3	C	8.93	3C	
15	1	C	4.87	1C	
16	1	R	2.03	1R	
17	1	C	6.21	1C	
18		F		F	
19	2	C	6.1	2C	
20	3	R	—	—	↘
21	3	R	2.14	3R	
22		F		F	
23	3	R		—	↘
24		F		F	
25	2	C	6.03	2C	
26		F		F	
27	1	R	2.18	1R	
28	1	C	7.66	1C	
29		F		F	
30	2	C	6.44	2C	
31		F		F	
32		F		F	
33	2	R	2.20	2R	
34		F		F	↘
35	3	R		—	↘
36	2	R	2.1	2R	
37	2	R	2.36	2R	
38	2	R	2.37	2R	
39	2	R	2.96	2R	
40	2	C	6.26	2C	
41	3	C	5.45	3C	
42		F		F	
43		F		F	
44	1	R	2.36	1R	
45	3	C	4.93	3C	

RANGE

Pushed button mistake reacted to alarm
1 200 feet
2 800 feet
3 900 feet

TYPE

R Run
C Crawl
F False

NOTES

2C
3R
1C
F
1R
2R
3C
F
1C
2R

MONITOR TALLY SHEET

DATE 12-14-81 SHIFT 1 STATION TV Hargrave

OBSERVER [redacted] MONITOR RMA

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	1	R	1.34	1R	+
2		F	11.40	F	+
3	3	C	5.51	3C	+
4	1	R	1.87	1R	+
5		F	9.12	F	+
6		F	9.02	F	+
7		F	9.15	F	+
8	3	C	4.33	3C	+
9	3	R	1.49	3R	+
10	1	C	2.84	1C	+
11	2	C	2.21	2C	+
12		F	6.90	F	+
13	1	C	2.75	1C	+
14	3	C	2.01	3C	+
15	1	C	3.09	1C	+
16	1	R	1.46	1R	+
17	1	C	4.05	1C	+
18		F	5.80	F	+
19	2	C	2.76	2C	+
20	3	R	1.65	3R	+
21	3	R	1.59	3R	+
22		F	6.41	F	+
23	3	R	1.92	3R	+
24		F	6.64	F	+
25	2	C	3.64	2C	+
26		F	6.34	F	+
27	1	R	1.68	1R	+
28	1	C	2.77	2C	+
29		F	6.53	F	+
30	2	C	4.47	2C	+
31		F	7.03	F	+
32		F	6.57	F	+
33	2	R	1.45	2R	+
34		F	5.82	F	+
35	3	R	1.70	3R	+
36	2	R	1.50	2R	+
37	2	R	1.52	2R	+
38	2	R	1.63	2R	+
39	2	R	2.19	2R	+
40	2	C	2.20	2C	+
41	3	C	3.98	3C	+
42		F	5.58	F	+
43		F	6.96	F	+
44	1	R	1.50	1R	+
45	3	C	3.44	3C	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
2C
3R
1C
F
1R
2R
3C
F
1C
2R

INTRUSION SCHEDULE

DATE 12-14-81 SHIFT 2 SUPERVISOR _____

TEST CONFIGURATION: HPS/Rocks (rain)

#	RANGE	TYPE	INTRUDER
1		F	
2	3	C	✓
3	2	C	✓
4	2	R	
5	2	R	
6	2	R	
7	3	C	
8		F	
9		F	
10	1	C	
11	1	C	
12		F	
13		F	
14	1	C	
15		F	
16		F	
17	2	C	
18		F	
19		F	
20	2	C	
21	2	R	
22	1	R	
23		F	
24	1	C	
25	1	R	
26	3	C	
27	2	R	
28	1	R	
29	3	R	
30	3	R	✓
31		F	✓
32	2	C	✓
33	2	C	✓
34	1	C	✓
35		F	✓
36	3	R	✓
37	1	R	✓
38	3	R	✓
39		F	✓
40		F	✓
41	3	C	✓
42		F	✓
43	3	R	✓
44	1	R	✓
45	3	C	✓

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

2 C
1 R
F
1 C
3 C
2 R
3 R
F
2 R
2 C

MONITOR TALLY SHEET

DATE 12/14/81 SHIFT 2 STATION COV

OBSERVER Ed MONITOR Tom

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	8.44	+	F
2	3	C	6.05	+	3C
3	2	C	5.31	+	2C
4	2	R	1.76	+	2R
5	2	R	1.64	+	2R
6	2	R	1.80	+	2R
7	3	C	8.24	+	3C
8		F	9.36	+	F
9		F	9.54	+	F
10	1	C	2.84	+	1C
11	1	C	3.07	+	1C
12		F	15.13	+	F
13		F	11.77	+	F
14	1	C	5.86	+	1C
15		F	11.64	+	F
16		F	10.10	+	F
17	2	C	2.85	+	2C
18		F	11.27	+	F
19		F	9.08	+	F
20	2	C	3.32	+	2C
21	2	R	1.53	+	2R
22	1	R	2.05	+	1R
23		F	11.94	+	F
24	1	C	3.87	+	1C
25	1	R	2.15	+	1R
26	3	C	3.43	+	3C
27	2	R	1.65	+	2R
28	1	R	1.66	+	1R
29	3	R	1.79	+	3R
30 ✓	3	~~ER~~ R	2.40	+	3R
31	2	~~R~~ F	11.50	+	F
32	2	~~R~~ C	2.77	+	2C
33	2	C	3.25	+	2C
34	1	C	6.92	+	1C
35		F	10.10	+	F
36	3	R	2.46	+	3R
37	1	R	2.49	+	1R
38	3	R	2.07	+	3R
39		F	14.15	+	F
40		F	28.15	+	F
41	3	C	4.72	+	3C
42		F	11.21	+	F
43	3	R	1.82	+	3R
44	1	R	2.24	+	1R
45	3	C	3.59	-	2C

RANGE slow start
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES
2C
1R
F
1C
3C
2R
3R
F
2R
2C

Raining hard

J

Gene
Jim

slower starts because of slipping in mud.

MONITOR TALLY SHEET

DATE 12/14/81 SHIFT 2 STATION Tower

OBSERVER Raul MONITOR RCS

Hopscotch rain

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F		F	
2	3	C	—	—	
3	3	C	12.47	2C	
4	2	R	2.27	2R	
5	2	R	2.27	2R	
6	2	R	2.34	2R	
7	3	C	—	—	
8		F		F	
9		F	13.71	1C	
10	1	C	3.76	3R	
11	1	C	9.38	1C	
12		F	14.32	1C	
13		F		F	
14	1	C	9.94	1C	
15		F	11.73	3C	
16		F		F	
17	2	C	7.24	2C	
18		F	21.48	3C	
19		F		F	
20	2	C	6.05	2C	
21	2	R	2.27	2R	
22	1	R	2.43	1R	
23		F		F	
24	1	C	8.19	1C	
25	1	R	2.23	1R	
26	3	C	3.67	3R	
27	2	R	1.99	2R	
28	1	R	2.69	1R	
29	3	R	5.72	3C	
30	3	R	22.08	1C	
31	[illegible]	F	16.34	2C	
32	2	C	6.85	2C	
33	2	C	6.42	2C	
34	1	C	7.57	1C	
35		F		F	
36	3	R	24.9	3C	
37	1	R	2.51	1R	
38	3	R	—	—	
39		F		F	
40		F		F	
41	3	C	7.47	3C	
42		F		F	
43	3	R	—	—	
44	1	R	2.55	1R	
45	3	C	11.2	3C	

RANGE
1 700 feet
2 800 feet
3 900 feet

finish 1900

TYPE
R Run
C Crawl
F False

NOTES
2C
1R
F
1C
3C
2R
3R
F
2R
2C

Jim vis improved

INTRUSION SCHEDULE

DATE 12/14/88 SHIFT 3 SUPERVISOR _____

TEST CONFIGURATION: APS/SPOTS/Rocks

#	RANGE	TYPE	INTRUDER
1		F	
2		F	
3	3	R	
4	3	C	
5	1	R	
6	1	C	
7		F	
8	3	C	
9	1	R	
10	3	C	
11		F	
12		F	
13	3	C	
14	1	R	
15	3	R	
16	1	R	
17	2	C	
18		F	
19	3	C	
20		F	
21	2	R	
22	2	C	
23	1	C	
24		F	
25		F	
26		F	
27	2	R	
28		F	
29	1	C	
30	2	R	
31	3	R	
32	1	C	
33	2	R	
34		F	
35	2	C	
36		F	
37		F	
38		F	
39	2	C	
40	2	R	
41	3	R	
42	1	C	
43	1	R	
44	2	C	
45	2	R	

RANGE 1

1 700 feet
2 800 feet
3 900 feet

TYPE

R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12-14-81 SHIFT 3 STATION Tower

OBSERVER El MONITOR Jan

APS/SPOTS/Rovers

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F		+	F
2		F		+	F
3	3	R	—	—	—
4	3	C	4.11	+	3C
5	1	R	2.72	+	1R
6	1	C	6.79	+	1C
7		F		+	F
8	3	C	3.92	+	3C
9	1	R	2.41	+	1R
10	3	C	3.83	+	3C
11		F		+	F
12		F		+	F
13	3	C	3.73	+	3C
14	1	R	2.30	+	1R
15	3	R	6.40	+	3R
16	1	R	2.06	+	1R
17	2	C	5.81	+	2C
18		F		+	F
19	3	C	4.69	+	3C
20		F		+	F
21	3	R	2.88	+	3R
22	2	C	5.84	+	2C
23	1	C	5.83	+	1C
24		F		+	F
25		F		+	F
26		F		+	F
27	2	R	2.51	+	2R
28		F		+	F
29	1	C	7.63	+	1C
30	2	R	2.72	+	2R
31	3	R	2.27	+	3R
32	1	C	4.52	+	1C
33	2	R	2.06	+	2R
34		F		+	F
35	2	C	4.85	+	2C
36		F		+	F
37		F		+	F
38		F		+	F
39	2	C	6.17	+	2C
40	2	R	2.40	+	2R
41	3	R	2.65	+	3R
42	1	C	4.54	+	1C
43	1	R	2.42	+	1R
44	2	C	7.48	+	2C
45	2	R	2.20	+	2R

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

got delayed start

NOTES shift 1+2 done w/o spots
3+4 with spots

Raining steadily. Intruders have stayed outside for all shifts.

MONITOR TALLY SHEET

DATE 12-14-81 SHIFT 3 STATION IV

OBSERVER Paul MONITOR LMA

Rain
7:08
7:35

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1		F	4.52	F	+
2		F	4.70	F	+
3	3	R	1.74	3R	+
4	3	C	2.88	3C	+
5	1	R	1.60	1R	+
6	1	C	2.28	1C	+
7		F	6.54	F	+
8	3	C	3.41	3C	+
9	1	R	1.56	1R	+
10	3	C	3.37	3C	+
11		F	6.72	F	+
12		F	7.65	F	+
13	3	C	2.08	3C	+
14	1	R	1.73	1R	+
15	3	R	5.69	3R	+
16	1	R	1.44	1R	+
17	2	C	2.30	2C	+
18		F	5.95	F	+
19	3	C	3.44	3C	+
20		F	7.82	F	+
21	3	R	1.48	3R	+
22	2	C	2.98	2C	+
23	1	C	3.00	1C	+
24		F	6.47	F	+
25		F	6.68	F	+
26		F	6.52	F	+
27	2	R	1.64	2R	+
28		F	6.47	F	+
29	1	C	2.55	1C	+
30	2	R	1.47	2R	+
31	3	R	1.59	3R	+
32	1	C	2.87	1C	+
33	2	R	1.53	2R	+
34		F	7.62	F	+
35	2	C	2.78	2C	+
36		F	5.30	F	+
37		F	7.18	F	+
38		F	5.35	F	+
39	2	C	3.02	2C	+
40	2	R	1.69	2R	+
41	3	R	1.59	3R	+
42	1	C	2.67	1C	+
43	1	R	1.67	1R	+
44	2	C	3.11	2C	+
45	2	R	1.72	2R	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

- 3 seconds - 2 beepers means did not run on first beeper. Did on second one!

INTRUSION SCHEDULE

DATE 12/14/81 SHIFT 4 SUPERVISOR _____

TEST CONFIGURATION: HRS/5 pots /rocks (rain)

#	RANGE	TYPE	INTRUDER
1	2	C	
2	2	C	
3		F	
4	2	R	
5		F	
6		F	
7	1	C	
8		F	
9	1	C	
10	2	R	
11	1	C	
12	1	C	
13	2	C	
14	3	R	
15		F	
16		F	
17	2	C	
18		F	
19		F	
20	2	C	
21	3	R	
22	1	C	
23		F	
24	3	R	
25	2	R	
26		F	
27		F	
28	3	C	
29	1	R	
30	1	R	
31	3	C	
32		F	
33		F	
34	1	R	
35	1	R	
36	3	C	
37	3	C	
38	3	R	
39	3	C	
40	3	R	
41		F	
42	1	R	
43		F	
44	2	R	
45	2	R	

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

Monitor Tally Sheet
~~INTRUSION SCHEDULE~~ tower

DATE 12-14-81 SHIFT 4 SUPERVISOR _____

Observer Paul Monitor Tom

TEST CONFIGURATION: APS/SPOTS/ROCKS

#	RANGE	TYPE	INTRUDER	Verify	Result
1	2	C	9.76	+	2C
2	2	C	4.16	+	2C
3		F	5.67	—	2C
4	2	R	2.31	+	2R
5		F	2.96	—	3R
6		F		+	F
7	1	C	11.69	+	1C
8		F		+	F
9	1	C	6.37	+	1C
10	2	R	2.13	+	2R
11	1	C	6.79	+	1C
12	1	C	5.79	+	1C
13	2	C	6.53	+	2C
14	3	R	8.30	—	3C
15		F	~~25.37~~	+	F
16		F	23.37	—	1C
17	2	C	4.93	+	2C
18		F	20.39	—	1C
19		F		+	F
20	2	C	5.86	+	2C
21	3	R	19.39	—	1C
22	1	C	10.78	+	1C
23		F	7.51	—	3C
24	3	R	—	—	—
25	2	R	2.13	+	2R
26		F	4.82	—	3R
27		F		+	F
28	3	C	6.23	+	3C
29	1	R	2.30	+	1R
30	1	R	2.55	+	1R
31	3	C	6.10	+	3C
32		F		+	F
33		F	27.86	—	3C
34	1	R	2.48	+	1R
35	1	R	1.93	+	1R
36	3	C	3.67	+	3C
37	3	C	14.19	+	3C
38	3	R	24.74	—	3C
39	3	C	7.48	+	3C
40	3	R	16.26	—	3C
41		F		+	F
42	1	R	2.72	+	1R
43		F		+	F
44	2	R	2.31	+	2R
45	2	R	2.28	+	2R

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

MONITOR TALLY SHEET

DATE 12/14/81 SHIFT 4 STATION TV

OBSERVER G. Henry MONITOR RMA

7:45

#	RANGE	TYPE	DETECTION TIME	VERIFY	RESULT
1	2	C	2.82	2C	+
2	2	C	3.52	2C	+
3		F	5.58	F	+
4	2	R	2.12	2R	+
5		F	6.07	F	+
6		F	9.50	F	+
7	1	C	3.62	1C	+
8		F	5.87	F	+
9	1	C	2.58	1C	+
10	2	R	2.04	2R	+
11	1	C	4.37	1C	+
12	1	C	2.79	1C	+
13	2	C	2.98	2C	+
14	3	R	1.92	3R	+
15		F	11.10	F	+
16		F	6.37	F	+
17	2	C	2.74	2C	+
18		F	10.28	F	+
19		F	8.21	F	+
20	2	C	2.84	2C	+
21	3	R	1.67	3R	+
22	1	C	3.23	1C	+
23		F	8.79	F	+
24	3	R	10.55	3R	+
25	2	R	2.10	2R	+
26		F	7.60	F	+
27		F	8.17	F	+
28	3	C	3.78	3C	+
29	1	R	1.52	1R	+
30	1	R	2.01	1R	+
31	3	C	5.12	1C	+
32		F	15.14	F	+
33		F	11.55	F	+
34	1	R	2.25	1R	+
35	1	R	1.64	1R	+
36	3	C	2.84	3C	+
37	3	C	5.25	3C	+
38	3	R	2.22	3R	+
39	3	C	5.03	3C	+
40	3	R	1.98	3R	+
41		F	9.55	F	+
42	1	R	2.92	1R	+
43		F	8.28	F	+
44	2	R	1.80	2R	+
45	2	R	1.92	2R	+

RANGE
1 700 feet
2 800 feet
3 900 feet

TYPE
R Run
C Crawl
F False

NOTES

> subtract

WEATHER DATA AND PHOTOMETER MEASUREMENTS

2 December

Weather Report at 1600 local time

	National Airport	Dulles Airport
Visibility (mi)	12	20
Temperature (°F)	53	55
Wind Speed (mph)	7	3
Wind Direction (deg)	180	200

3 December

Weather Report at 1600 local time

	National Airport	Dulles Airport
Visibility (mi)	15	15
Temperature (°F)	53	50
Wind Speed (mph)	15	6
Wind Direction (deg)	280	310

Luminance of the test zone with tungsten iodide lights and natural grass surface, 0.12 fL.

4 December

Weather Report at 1600 local time

	National Airport	Dulles Airport
Visibility (mi)	6[1]	6[2]
Temperature (°F)	49	46
Wind Speed (mph)	8	5
Wind Direction (deg)	060	330

[1]rain and fog
[2]rain

Luminance of the test zone using tungsten iodide lights and discrete retroreflectors placed on the ground; 3.9 fL.

7 December

Weather Report at 1600 local time

	National Airport	Dulles Airport
Visibility (mi)	15	25
Temperature (°F)	46	43
Wind Speed (mph)	6	6
Wind Direction (deg)	200	190

The discrete retroreflectors were raised 3 5/8 inches. Luminance using the tungsten iodide lights was 14.2 fL.

8 December

Weather Report at 1500 local time

	National Airport	Dulles Airport
Visibility (mi)	20	25
Temperature (°F)	49	47
Wind Speed (mph)	8	18
Wind Direction (deg)	060	300

Luminance of the test zone with high pressure sodium 250 watt lights and natural grass surface, 0.16 fL.

9 December

Weather Report at 1500 local time

	National Airport	Dulles Airport
Visibility (mi)	20	25
Temperature (°F)	40	37
Wind Speed (mph)	24/35[1]	18
Wind Direction (deg)	330	310

[1]gusts

10 December
Weather Report at 1500 local time

	National Airport	Dulles Airport
Visibility (mi)		25
Temperature (°F)		37
Wind Speed (mph)		15/27[1]
Wind Direction (deg)		310

[1]gusts

Luminance of the test zone with high pressure sodium 250 watt lights and crushed rock surface, 0.24 fL.

11 December
Weather Report at 1600 local time

	National Airport	Dulles Airport
Visibility (mi)	12	25
Temperature (°F)	41	36
Wind Speed (mph)	17/24[1]	14
Wind Direction (deg)	330	300

[1]gusts

14 December
Weather Report at 1600 local time

	National Airport	Dulles Airport
Visibility (mi)	2[1]	3/4[1]
Temperature (°F)	38	35
Wind Speed (mph)	8	5
Wind Direction (deg)	050	090

[1]rain and fog

It was raining too hard to focus the photometer on the test zone. With an approximate setting of the photometer the luminance in the field was 4.4 fL with the high pressure sodium lights on. Turning on the tungsten iodide lights (in addition to the high pressure sodium lights) increased the luminance to 5.4 fL.